



# CHART PROGRAM

## EORS R8

### DETAILED DESIGN

Version 2.0  
Work Order 11 Deliverable 2  
Doc# WO11-EORS-RD-002

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Prepared by: **CSRA**

Approved via separate Deliverable Acceptance Form per RFP section 3.9.2

## Revision History

Date	Version	Description	Page Affected	Author
6/5/2017	1.0	<ul style="list-style-type: none"><li>Initial release</li><li>Added updates for PR work and general document formatting clean up.</li></ul>	All	Dan Lindsay Paul Mink
7/10/2017	2.0	<ul style="list-style-type: none"><li>Updated success page</li></ul>		

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## 1.1 Purpose and Scope

### 1.1.1 Purpose

This document describes the design of the software for EORS WO 11 Del 2. EORS WO 11 Del 2 release provides the new features listed below. These features are being developed under work order WO 11.

- **WO 11 Tasks:** Re-design the EORS Situational Awareness and SARS Archive modules:
  - **Situational Awareness** - The Situational Awareness module will be completely re-designed and implemented according to customer requirements. The SARS module will be streamlined for greater performance and the user interface will be simplified according to customer wishes.
  - **SARS Archive** – While the SARS Archive will remain largely unchanged in appearance additional functionality will be added to allow users to search the archive by event ID and user who created the report. This additional search functionality will only be available for reports created after the current release.
  - **Prioritized Problem Reports** - The following PR's are included in this release.
    - EORS-1244 Update RWIS device data in EORS
    - EORS-764 Equipment and labor Reporting using incorrect date range
    - EORS-1208 List of Active Events show incorrect datetime for Last report
    - EORS-1227 Create deployment script for EORS SSRS reports
    - EORS-429 Updated error handling to better deal with CHARTWeb DB connections failure
    - EORS-1291 SARS – District user can edit Lane Closures on EOC tab
    - EORS-1292 SARS – SOC user does not get Create Report or Save button on EOC tab

### 1.1.2 Scope

The main objective of this detailed design document is to provide software developers with a framework in which to implement the requirements identified in the EORS WO 11 Requirements document. A mapping of requirements to the design is presented in Appendix A (Mapping to Requirements).

## **1.2 Project Executive Summary**

The main objective of this detailed design document is to provide software developers with a framework in which to implement the requirements identified in the EORS WO 11 Requirements document.

### ***Design Process***

The design was created by capturing the requirements of the system in Use Case tables. Class diagrams, as needed, were generated showing the high level objects that address the Use Cases.

### ***Design Tools***

The work products contained within this design were extracted from the Gliffy design tool. Within this tool, the design is contained in the project named “WO11” on Confluence portal.

### ***Work Products***

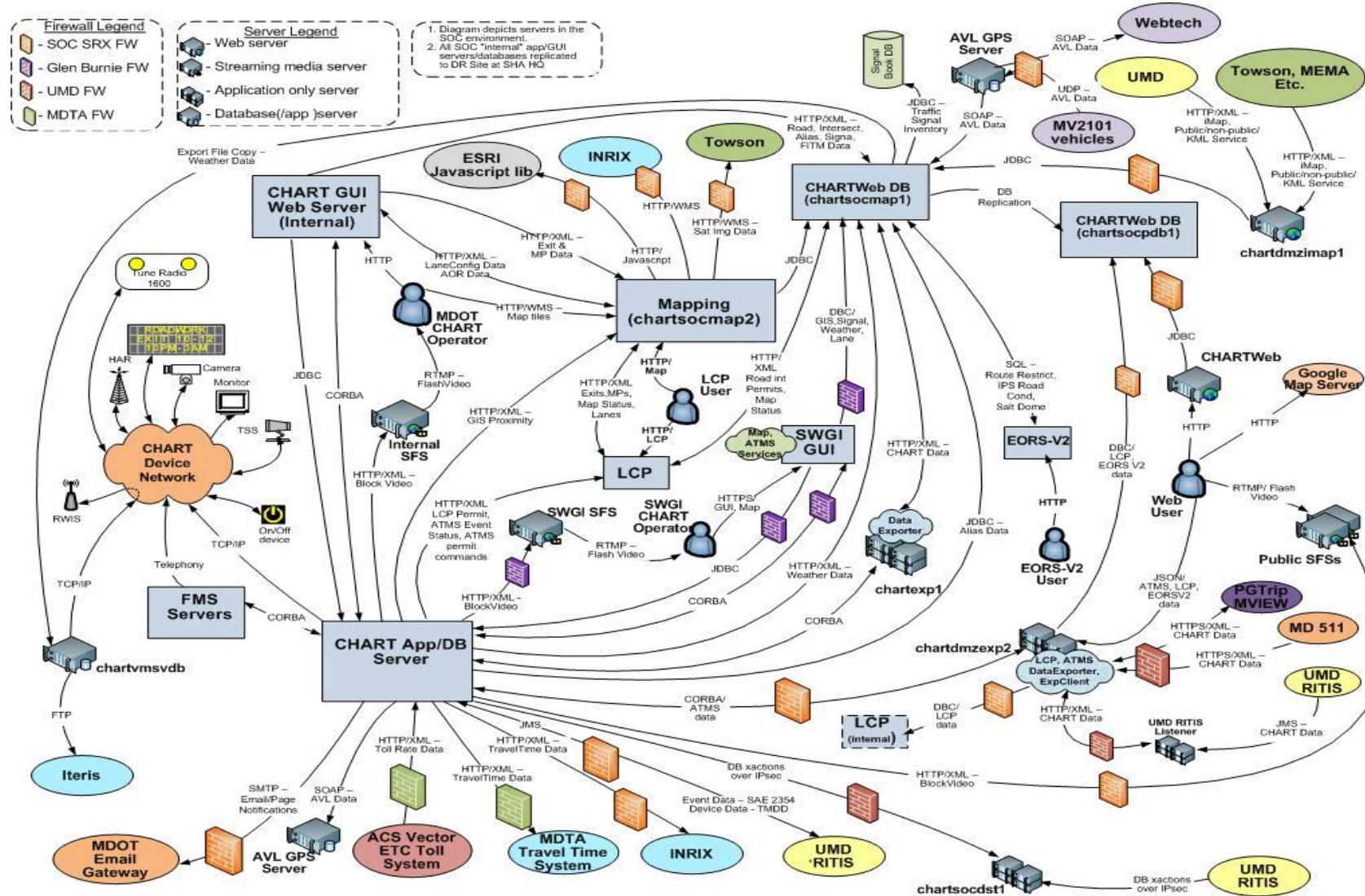
The final EORS WO 11 design consists of the following work products:

- Human-Machine Interface section which provides descriptions of the screens that are changing or being added in order to allow the user to perform the described uses.
- Use Case tables that capture the requirements of the system
- Requirement Verification Traceability Matrix that shows how this design meets the documented requirements for this feature

#### **1.2.1 System Overview**

EORS is a web-based application. The majority of operations EORS users will perform relate to SHA’s response to conditions that adversely affect Maryland roads. In fact, most of the work you do will involve winter storm events. However, EORS also provides you with the ability to work with non-winter emergency events.

Figure 1-1 provides an overall CHART systems architecture. Figure 1-2 provides an overall EORS architecture.



**Figure 1-1. CHART and External Interfaces**

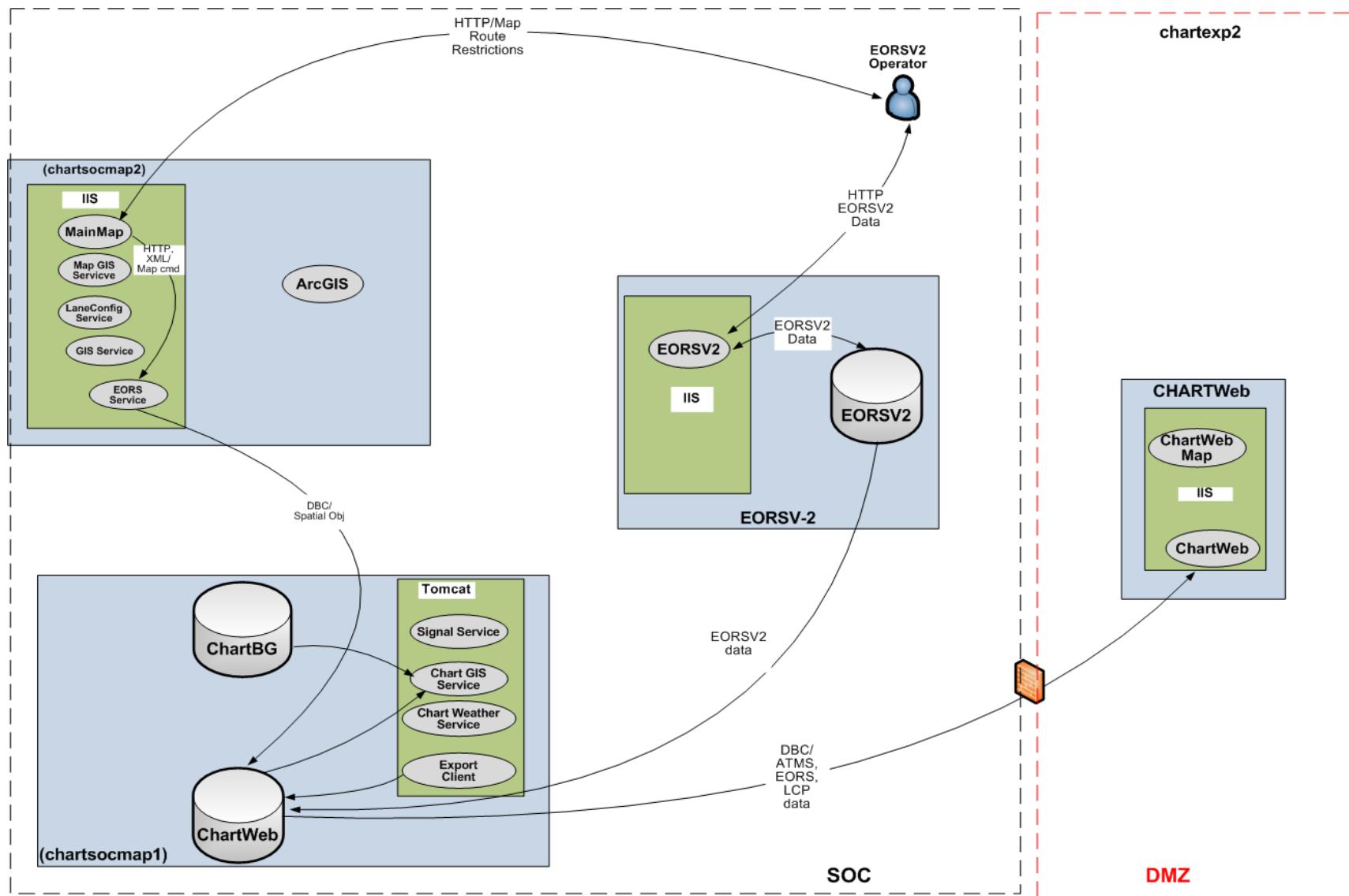


Figure 1-2. EORS Detailed Architecture

A matrix of requirements to the design is presented in Appendix A (Mapping to Requirements).

#### 1.2.2 Design Constraints

No design constraints have been identified for WO 11.

#### 1.2.3 Future Contingencies

No future contingencies have been identified for WO 11.

### 1.3 Document Organization

Section 1 of this document is the introduction.

Section 2 describes the system architecture.

Section 3 describes the file and database design.

Section 4 describes the human –machine interface

Section 5 describes the detailed design with additional detailed content (detailed diagrams)

Section 6 describes the interfaces external to EORS.

Section 7 describes the system integrity controls.

### 1.4 Points of Contact

The key members of the staff are listed below:

CSRA Operations Manager: Sam Jallad (410-872-2121)

CSRA Program Manager: Laura Nicholas (678-861-6569)

CSRA Project Manager: Gary Krebs (678-838-9935)

System Administrator: Kenny Gross (410-582-5680)

Application Delivery Manager: Chris Brennan (410-872-2124)

EORS Development lead: Paul Mink (410-582-5684)

Database Administrator: Harry Diener (410-872-2106)

Configuration Manager: Delena McFadden-Mello (410-872-2122)

Configuration Manager: Mike Fleming (410-872-2127)

System Test: Rick Saffery (410-872-2133)

System Test: Asha Khatri (410-872-2130)

CHART Project Manager: Dale Lineweaver (410-582-5695)

CHART Project Manager: Dave Rossbach (410-582-5545)

CHART Program Administrator: Rick Dye (410-582-5619)

## 1.5 Project References

The following are the list of the relevant WO documents. Note that not all are updated for these specific releases:

1. *WO11 Del 2 EORS R8 Software Requirements*, February 27, 2016

## 1.6 Glossary

TERM	DESCRIPTION
AJAX	Asynchronous Javascript and XML
API	Application Programming Interface
ATMS	Advance Traffic Management System
CHART	Coordinated Highways Action Response Team
COTS	Commercial Off The Shelf [software or equipment]
CRUD	Create, Read, Update, and Delete (the four standard actions which can be performed on a database table).
DBMS	Database Management System
ERD	Entity Relationship Diagram, used to show the relationship between tables in an RDBMS
Functional Right	A user right, granted to CHART users via Roles. Each operation on a device, including the ability to configure a device, view its sensitive information, and issue commands to the device are controlled by user rights. Users must possess the proper right to be able to perform these actions.
GB	Gigabytes
GIF	Graphic Interchange Format (picture file)
GIS	A Geographic Information System (GIS) is any system that captures, stores, analyzes, manages, and presents data that are linked to location
GUI	Graphical User Interface
HTML	HyperText Markup Language
HTTP	HyperText Transfer Protocol
KB	Kilobytes
LCP	Lane Closure Permit, a permit for closure of a road for maintenance, or the system used to manage those permits.
MB	Megabytes
MSSQL	Microsoft SQL [Server], the DBMS used in CHART.
PDF	Portable Document Format
PR	Problem Report
RDBMS	Relational DBMS
REST	Representational State Transfer
RPC	Remote Procedure Call
SDK	Software Development Kit
SHA	State Highway Administration
SOC	Statewide Operations Center
SQL	Structured Query Language
UCD	Use Case Diagram. Depicts a collection of Use Cases.
UML	Unified Modeling Language
XML	Extensible Markup Language



## SYSTEM ARCHITECTURE

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The sections below discuss specific elements of the architecture and software components that are created, changed, or used in EORS.

### **2.1 System Hardware Architecture**

EORS WO 11 features do not impact the hardware architecture of the EORS system.

### **2.2 System Software Architecture**

EORS uses the Microsoft .NET Framework and ASP.NET architecture with the DotNetNuke DNN framework for web application development. Except where noted in the subsections below, WO 11 features do not impact the software architecture of the EORS.

#### **2.2.1 COTS Products**

EORS uses numerous COTS products for both run-time and development. Table 2-1 contains existing and new COTS products.

***Table 2-1. EORS COTS Products***

Product Name	Version	Description/Purpose	redistributable	Usage
Microsoft SQL Server	2008 R2	EORS uses Microsoft SQL Server 2008 to host its databases.	Proprietary	Runtime
Microsoft Visual Studio (including .NET 4.5)	2013 & 2017Ultimate	EORS uses Microsoft Visual Studio 2013 & 2017 Ultimate for C# source code development. Necessary library files are used in the runtime environment.	Proprietary	Development Runtime
Microsoft Windows	2008 Server	EORS uses Microsoft Windows 2008 Server as its standard runtime platform for the EORS application/database servers.	Proprietary	Runtime
RedGate SQL Backup Pro	6	EORS uses these parts of the RedGate DBA Bundle monitoring tools to support the backup and restore processes and to monitor database performance	Proprietary	Runtime
RedGate SQL Monitor	2.3.0			

<b>Product Name</b>	<b>Version</b>	<b>Description/Purpose</b>	<b>redistributable</b>	<b>Usage</b>
DotNetNuke	7.1	EORS uses the DotNetNuke application framework.	Open source	Development
Subversion	1.9	EORS uses Apache Subversion for source code control.	Open source	Development
Subversion browser TortoiseSVN	1.9	Official EORS builds use TortoiseSVN subversion browser. Some developers may use TortoiseSVN as well.	Open source	Development
vRanger Backup & Replication	5.3.1	The CHART Program uses vRanger Backup & Replication by Quest Software to maintain system backups. This subsystem is not part of the EORS per se, but serves in a support role. Therefore it is listed as having Administrative usage, rather than Runtime usage.	Proprietary	Administrative

### **2.2.2 Component Deployment**

The EORS modules being updated: Situational Awareness Reporting System (SARS), and SQL Reports.

### **2.2.3 Internal Interfaces**

This EORS WO11 system did not have any added internal interfaces

## **2.3 Internal Communications Architecture**

The overall communications architecture of EORS is depicted in Figure 1-2. There are no internal communications architecture changes for EORS WO11.

EORS stores most of its data in a non-spatial MS SQL Server database. Some data is stored in flat files on the EORS servers.

## 3.1 Data

### 3.1.1 EORS

#### 3.1.1.1 Overview

An overview of the changes made to the EORS database design for Release 8 features are described below.

#### Database Architecture

Except as noted, EORS WO 11 features do not impact the overall architecture of the EORS database.

#### 3.1.1.2 Database Architecture

Except as noted, EORS WO 11 features do not impact the overall architecture of the EORS database. Contains logical design

#### 3.1.1.2.1 Function to Entity Matrix Report

The Create, Retrieve, Update, Delete (CRUD) matrix cross-references business functions to entities and shows the use of the entities by those functions. This report is generated as part of the EORS O&M Guide.

#### 3.1.1.2.2 Table Definitions

##### Model

Type: [Package](#)

Package:

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

##### Affiliates

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

##### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	Affiliated	int	True	True	0	0	0		
False	VendorId	int	False	False	0	0	0		
False	StartDate	datetime	False	False	0	23	3		
False	EndDate	datetime	False	False	0	23	3		
False	CPC	float	True	False	0	53	0		
False	Clicks	int	True	False	0	0	0		

False	CPA	float	True	False	0	53	0			
False	Acquisitions	int	True	False	0	0	0			

### ***Constraints***

Name	Type	Columns	Initial Code	Notes
PK_Affiliates	Public	AffiliateId		

## **Announcements**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### ***Columns***

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ItemID	int	True	True	0	0	0		
False	ModuleID	int	True	False	0	0	0		
False	CreatedDate	datetime	False	False	0	23	3		
False	Title	nvarchar	False	False	150	0	0		
False	URL	nvarchar	False	False	150	0	0		
False	ExpireDate	datetime	False	False	0	23	3		
False	Description	ntext	False	False	0	0	0		
False	ViewOrder	int	False	False	0	0	0		
False	CreatedByUser	int	True	False	0	0	0		
False	PublishDate	datetime	False	False	0	23	3		
False	ImageSource	nvarchar	False	False	250	0	0		

### ***Constraints***

Name	Type	Columns	Initial Code	Notes
PK_Announcements	Public	ItemID		
IX_Announcements	Public	ModuleID		

## **AnonymousUsers**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### ***Columns***

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	UserID	char	True	True	36	0	0		
True	PortalID	int	True	True	0	0	0		
False	TabID	int	True	False	0	0	0		
False	CreationDate	datetime	True	False	0	23	3	(getdate())	
False	LastActiveDate	datetime	True	False	0	23	3	(getdate())	

### ***Constraints***

Name	Type	Columns	Initial Code	Notes
------	------	---------	--------------	-------

Name	Type	Columns	Initial Code	Notes
PK_AnonymousUsers	Public	UserID PortalID		

## Assemblies

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	AssemblyID	int	True	True	0	0	0		
False	PackageID	int	True	False	0	0	0		
False	AssemblyName	nvarchar	True	False	250	0	0		
False	Version	nvarchar	True	False	20	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_PackageAssemblies	Public	AssemblyID		

## Authentication

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	AuthenticationID	int	True	True	0	0	0		
False	PackageID	int	True	False	0	0	0	((-1))	
False	Authentication Type	nvarchar	True	False	100	0	0		
False	IsEnabled	bit	True	False	0	1	0	(0)	
False	SettingsControlSrc	nvarchar	True	False	250	0	0		
False	LoginControlSrc	nvarchar	True	False	250	0	0		
False	LogoffControlSrc	nvarchar	True	False	250	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Authentication	Public	AuthenticationID		

## Banners

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre	Scal	Init	Notes
----	------	------	----------	--------	-----	-----	------	------	-------

					<b>c</b>	<b>e</b>		
True	BannerId	int	True	True	0	0	0	
False	VendorId	int	True	False	0	0	0	
False	ImageFile	nvarchar	False	False	100	0	0	
False	BannerName	nvarchar	True	False	100	0	0	
False	Impressions	int	True	False	0	0	0	
False	CPM	float	True	False	0	53	0	
False	Views	int	True	False	0	0	0	(0)
False	ClickThroughs	int	True	False	0	0	0	(0)
False	StartDate	datetime	False	False	0	23	3	
False	EndDate	datetime	False	False	0	23	3	
False	CreatedByUser	nvarchar	True	False	100	0	0	
False	CreatedDate	datetime	True	False	0	23	3	
False	BannerTypeId	int	False	False	0	0	0	
False	Description	nvarchar	False	False	200	0	0	
False	GroupName	nvarchar	False	False	100	0	0	
False	Criteria	bit	True	False	0	1	0	(1)
False	URL	nvarchar	False	False	255	0	0	
False	Width	int	True	False	0	0	0	(0)
False	Height	int	True	False	0	0	0	(0)

### ***Constraints***

Name	Type	Columns	Initial Code	Notes
PK_Banner	Public	BannerId		
IX_Banners	Public	BannerTypeId		
IX_Banners_1	Public	VendorId		

## **Blog\_Blogs**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### ***Columns***

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	PortalID	int	True	False	0	0	0		
True	BlogID	int	True	True	0	0	0		
False	UserID	int	True	False	0	0	0		
False	Title	nvarchar	True	False	255	0	0		
False	Description	nvarchar	False	False	102 4	0	0		
False	Public	bit	True	False	0	1	0		
False	AllowComments	bit	True	False	0	1	0		
False	AllowAnonymous	bit	True	False	0	1	0		
False	LastEntry	datetime	False	False	0	23	3		
False	Created	datetime	True	False	0	23	3	(getut cdate( ))	
False	ShowFullName	bit	True	False	0	1	0		

False	DateFormat	nvarchar	True	False	50	0	0			
False	Culture	nvarchar	False	False	10	0	0			
False	TimeZone	int	True	False	0	0	0			
False	ParentBlogID	int	False	False	0	0	0	((-1))		
False	Syndicated	bit	True	False	0	1	0			
False	SyndicateIndependent	bit	True	False	0	1	0			
False	SyndicationURL	nvarchar	False	False	102 4	0	0			
False	SyndicationEmail	nvarchar	False	False	255	0	0			
False	EmailNotification	bit	False	False	0	1	0			
False	AllowTrackbacks	bit	False	False	0	1	0			
False	AutoTrackback	bit	False	False	0	1	0			
False	MustApproveComments	bit	False	False	0	1	0			
False	MustApproveAnonymous	bit	False	False	0	1	0			
False	MustApproveTrackbacks	bit	False	False	0	1	0			

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Blog_Blogs_BlogID	Public	BlogID		
IX_Blog_Blogs_PortalID	Public	PortalID		
IX_Blog_Blogs.UserID	Public	UserID		

## Blog\_Comments

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	CommentID	int	True	True	0	0	0		
False	EntryID	int	True	False	0	0	0		
False	UserID	int	False	False	0	0	0		
False	Comment	ntext	True	False	0	0	0		
False	AddedDate	datetime	True	False	0	23	3		
False	Title	nvarchar	True	False	255	0	0		
False	Approved	bit	False	False	0	1	0		
False	Author	nvarchar	False	False	50	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Blog_Comments_CommentID	Public	CommentID		
IX_Blog_Comments_EntryID	Public	EntryID		

## **Blog\_Entries**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	BlogID	int	True	False	0	0	0		
True	EntryID	int	True	True	0	0	0		
False	Title	nvarchar	True	False	255	0	0		
False	Entry	ntext	True	False	0	0	0		
False	AddedDate	datetime	True	False	0	23	3		
False	Published	bit	True	False	0	1	0		
False	Description	nvarchar	False	False	102 4	0	0		
False	AllowComments	bit	False	False	0	1	0		
False	DisplayCopyright	bit	True	False	0	1	0		
False	Copyright	nvarchar	False	False	255	0	0		
False	PermaLink	nvarchar	False	False	102 4	0	0		

### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_Blog_Entries_EntryID	Public	EntryID		
IX_Blog_Entries_AddedDa te	Public	AddedDate		
IX_Blog_Entries_BlogID	Public	BlogID		

## **Blog\_Settings**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	PortalID	int	True	True	0	0	0		
True	Key	nvarchar	True	True	50	0	0		
False	Value	nvarchar	True	False	102 4	0	0		
True	TabID	int	True	True	0	0	0		

### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_Blog_Settings	Public	PortalID TabID Key		

## Classification

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ClassificationId	int	True	True	0	0	0		
False	ClassificationName	nvarchar	True	False	200	0	0		
False	ParentId	int	False	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_VendorCategory	Public	ClassificationId		
IX_Classification	Public	ParentId		

## DNNMasters\_UIM\_HelperSettings

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	skey	varchar	False	False	50	0	0		
False	svalue	varchar	False	False	256	0	0		

## DNNMasters\_UIM\_MLSP\_Permissions

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	PermissionFeature_ID	int	True	False	0	0	0		
False	PermissionName	nvarchar	True	False	25	0	0		
False	PermissionDescription	nvarchar	True	False	50	0	0		
False	BusinessControllerClass	nvarchar	True	False	200	0	0		
False	Abbreviation	nvarchar	False	False	5	0	0		

## DNNMasters\_UIM\_MLSP\_UserPermissions

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	UserPermission_ID	int	True	False	0	0	0		
False	DNNUser_ID	int	True	False	0	0	0		
False	PermissionFeature_ID	int	True	False	0	0	0		
False	IsUser	bit	True	False	0	1	0		

### **DesktopModules**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	DesktopModuleID	int	True	True	0	0	0		
False	FriendlyName	nvarchar	True	False	128	0	0		
False	Description	nvarchar	False	False	200	0	0		
False	Version	nvarchar	False	False	8	0	0		
False	IsPremium	bit	True	False	0	1	0		
False	isAdmin	bit	True	False	0	1	0		
False	BusinessControllerClass	nvarchar	False	False	200	0	0		
False	FolderName	nvarchar	True	False	128	0	0		
False	ModuleName	nvarchar	True	True	128	0	0		
False	SupportedFeatures	int	True	False	0	0	0	(0)	
False	CompatibleVersions	nvarchar	False	False	500	0	0		
False	Dependencies	nvarchar	False	False	400	0	0		
False	Permissions	nvarchar	False	False	400	0	0		

### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_DesktopModules	Public	DesktopModuleID		
IX_DesktopModules_ModuleName	Public	ModuleName		
IX_DesktopModules_FriendlyName	Public	FriendlyName		

### **DnnForge\_SimpleGallery\_Album**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre	Scal	Init	Notes

					<b>c</b>	<b>e</b>		
True	AlbumID	int	True	True	0	0	0	
False	ModuleID	int	True	False	0	0	0	
False	Caption	nvarchar	True	False	255	0	0	
False	IsPublic	bit	True	False	0	1	0	(0)
False	HomeDirectory	nvarchar	True	False	255	0	0	
False	ParentAlbumID	int	True	False	0	0	0	((-1))
False	Description	nvarchar	False	False	255	0	0	
False	Password	nvarchar	False	False	50	0	0	
False	AlbumOrder	int	True	False	0	0	0	(0)

#### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_DnnForge_SimpleGallery_Album	Public	AlbumID		

### **DnnForge\_SimpleGallery\_Photo**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	PhotoID	int	True	True	0	0	0		
False	ModuleID	int	True	False	0	0	0		
False	Name	nvarchar	True	False	100	0	0		
False	FileName	nvarchar	True	False	255	0	0		
False	DateCreated	datetime	True	False	0	23	3		
False	Width	int	True	False	0	0	0		
False	Height	int	True	False	0	0	0		
False	AlbumID	int	False	False	0	0	0		
False	IsDefault	bit	True	False	0	1	0	(0)	
False	AuthorID	int	False	False	0	0	0		
False	ApproverID	int	False	False	0	0	0		
False	IsApproved	bit	True	False	0	1	0	(1)	
False	DateApproved	datetime	False	False	0	23	3		
False	DateUpdated	datetime	False	False	0	23	3		
False	Description	ntext	False	False	0	0	0		

#### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_DnnForge_SimpleGallery_Photo	Public	PhotoID		

### **DnnForge\_SimpleGallery\_Template**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes

True	TemplateID	int	True	True	0	0	0			
False	ModuleID	int	True	False	0	0	0			
False	Name	nvarchar	True	False	255	0	0			
False	Template	ntext	True	False	0	0	0			

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_DnnForge_SimpleGallery_Template	Public	TemplateID		

### Documents

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ItemID	int	True	True	0	0	0		
False	ModuleID	int	True	False	0	0	0		
False	CreatedDate	datetime	False	False	0	23	3		
False	URL	nvarchar	False	False	250	0	0		
False	Title	nvarchar	False	False	150	0	0		
False	Category	nvarchar	False	False	50	0	0		
False	CreatedByUserID	int	False	False	0	0	0		
False	OwnedByUserID	int	False	False	0	0	0		
False	ModifiedByUserID	int	False	False	0	0	0		
False	ModifiedDate	datetime	False	False	0	23	3		
False	SortOrderIndex	int	False	False	0	0	0		
False	Description	nvarchar	False	False	255	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Documents	Public	ItemID		
IX_Documents	Public	ModuleID		

### DocumentsSettings

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ModuleID	int	True	True	0	0	0		
False	ShowTitleLink	bit	False	False	0	1	0		
False	SortOrder	nvarchar	False	False	200	0	0		
False	DisplayColumns	nvarchar	False	False	200	0	0		
False	UseCategoriesList	bit	False	False	0	1	0		

### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_DocumentsSettings	Public	ModuleID		

## **EORS\_Common\_County**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ID	uniqueid entifier	True	True	0	0	0		
False	county	int	True	False	0	0	0		
False	name	varchar	True	False	20	0	0		
False	abrv	varchar	True	False	2	0	0		
False	district	int	True	False	0	0	0		
False	fips	int	False	False	0	0	0		

### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK__EORS__COMMON__C ounty	Public	ID		
IX_EORS_Common_Coun ty_county	Public	county		

### **Relationships**

Columns	Association	Notes
(countyID = ID)	<b>0..*</b> EORS_RWIS_Info.FK_EORS_RWIS_Info_county <b>1</b> EORS_Common_County.PK__EORS_COMMON_Cou nty	
(countyID = ID)	<b>0..*</b> EORS_Snow_Emergency.FK_EORS_Snow_Emergenc y_countyID <b>1</b> EORS_Common_County.PK__EORS_COMMON_Cou nty	

## **EORS\_Common\_Direction**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ID	uniqueid entifier	True	True	0	0	0		
False	abrv_txt	varchar	True	False	5	0	0		

False	full_txt	varchar	True	False	20	0	0			
False	ordinal	smallint	True	False	0	5	0			
False	chart_id	smallint	True	False	0	5	0			

#### ***Constraints***

Name	Type	Columns	Initial Code	Notes
PK_EORS_Common_Direction	Public	ID		
IX_EORS_Common_Direction_ordinal	Public	ordinal		

## **EORS\_Common\_Existing\_Seasons**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### ***Columns***

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	seasonID	uniqueidentifier	True	True	0	0	0	(newid())	
False	season	varchar	False	False	9	0	0		
False	start_date	datetime	True	False	0	23	3		
False	end_date	datetime	True	False	0	23	3		

#### ***Constraints***

Name	Type	Columns	Initial Code	Notes
PK_EORS_Common_Exis_181AEBB0	Public	seasonID		
IX_EORS_Common_Existing_Seasons_season	Public	season		

#### ***Relationships***

Columns	Association	Notes
(seasonID = seasonID)	0..* EORS_Event.FK_EORS_Event_SeasonID 1 EORS_Common_Existing_Seasons.PK_EORS_Common_Exis_181AEBB0	
(seasonID = seasonID)	0..* EORS_Rates.FK_EORS_Rates_EORS_Common_Existing_Seasons_season 1 EORS_Common_Existing_Seasons.PK_EORS_Common_Exis_181AEBB0	

## **EORS\_Common\_Intersecting\_Route**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### ***Columns***

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes

True	ID	uniqueid entifier	True	True	0	0	0			
False	Road_name1	varchar	False	False	35	0	0			
False	Rte_Type1_ID	uniqueid entifier	False	False	0	0	0			
False	Rte_No1	float	False	False	0	53	0			
False	start_county_ID	uniqueid entifier	False	False	0	0	0			
False	District1	int	False	False	0	0	0			
False	Road_Name2	varchar	False	False	35	0	0			
False	Rte_Type2_ID	uniqueid entifier	False	False	0	0	0			
False	Rte_No2	float	False	False	0	53	0			
False	end_county_ID	uniqueid entifier	False	False	0	0	0			
False	District2	int	False	False	0	0	0			

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Common_Inter secting_Route	Public	ID		

## EORS\_Common\_Route\_Type

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ID	uniqueid entifier	True	True	0	0	0		
False	abrv_txt	varchar	True	False	5	0	0		
False	full_txt	varchar	False	False	20	0	0		
False	ordinal	smallint	True	False	0	5	0		
False	chart_id	smallint	False	False	0	5	0		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Common_Rou te_Type	Public	ID		
IX_EORS_Common_Rout e_Type_ordinal	Public	ordinal		

## EORS\_Common\_Shop

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	shopID	uniqueid	True	True	0	0	0	(newid)	

		entifier						()	
False	shop	varchar	True	False	4	0	0		
False	name	varchar	True	False	35	0	0		
False	county	uniqueid entifier	False	False	0	0	0		
False	shortname	varchar	False	False	35	0	0		
False	district	int	False	False	0	0	0		

#### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_EORS_Common_Shop	Public	shopID		

#### **Relationships**

Columns	Association	Notes
(shopID = shopID)	0..* EORS_Event_Shop_Report_Materials.FK_EORS_Event_Shop_Report_Materials_shopID 1 EORS_Common_Shop.PK_EORS_Common_Shop	
(shopID = shopID)	0..* EORS_Event_Shop_Reports.fk_eors_event_shop_reports_shopID 1 EORS_Common_Shop.PK_EORS_Common_Shop	
(shopID = shopID)	0..* EORS_Rates.FK_EORS_Rates_EORS_Common_Shops_shop 1 EORS_Common_Shop.PK_EORS_Common_Shop	

### **EORS\_Common\_Shop\_RWIS\_LKP**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	shopID	uniqueid entifier	True	True	0	0	0		
False	primary_RWIS	varchar	False	False	100	0	0		
False	secondary_RWIS	varchar	False	False	100	0	0		

#### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_EORS_Common_Shop_RWIS_LKP	Public	shopID		

### **EORS\_Common\_Shop\_lanemiles**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre	Scal	Init	Notes
----	------	------	----------	--------	-----	-----	------	------	-------

						<b>c</b>	<b>e</b>		
False	shop	varchar	True	False	4	0	0		
False	lanemiles	float	True	False	0	53	0		
False	season	varchar	True	False	50	0	0		

## EORS\_Common\_Zone\_Road\_Types

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	shop	varchar	True	False	4	0	0		
False	shopID	uniqueid entifier	False	False	0	0	0		
False	zone	int	True	False	0	0	0		
False	has_interstate	bit	True	False	0	1	0		
False	has_primary	bit	True	False	0	1	0		
False	has_secondary	bit	True	False	0	1	0		
False	rowguid	uniqueid entifier	True	False	0	0	0		

## EORS\_EOC\_Operations\_Plans

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ID	uniqueid entifier	True	True	0	0	0	(newid ())	
False	Update_Time	datetime	True	False	0	23	3	(getda te())	
False	District	int	True	False	0	0	0		
False	Shop	varchar	False	False	4	0	0		
False	Log_Data	varchar	False	False	102 4	0	0		
False	Dumpers	int	True	False	0	0	0	((0))	
False	Loaders	int	True	False	0	0	0	((0))	
False	Graders	int	True	False	0	0	0	((0))	
False	Blowers	int	True	False	0	0	0	((0))	
False	Priority_1_Anti_Ice	tinyint	True	False	0	3	0	((0))	
False	Priority_2_Anti_Ice	tinyint	True	False	0	3	0	((0))	
False	Priority_3_Anti_Ice	tinyint	True	False	0	3	0	((0))	
False	Priority_1_Anti_Ice _Begin	varchar	False	False	50	0	0		
False	Priority_2_Anti_Ice _Begin	varchar	False	False	50	0	0		
False	Priority_3_Anti_Ice _Begin	varchar	False	False	50	0	0		

### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK__EORS_EOC_Operati 5D27D404	Public	ID		

## **EORS\_EOC\_Ops\_Plan\_Archive**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	name	varchar	False	False	20	0	0		
False	date	datetime	False	False	0	23	3		
False	size	int	False	False	0	0	0		

## **EORS\_Event**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	eventID	varchar	True	True	20	0	0		
False	season_event_nu m	int	True	False	0	0	0		
False	eventTypeID	uniqueid entifier	True	False	0	0	0		
False	status	bit	True	False	0	1	0		
False	displayname	varchar	True	False	100	0	0		
False	date_created	datetime	True	False	0	23	3	(getda te())	
False	date_closed	datetime	False	False	0	23	3		
False	last_report	datetime	False	False	0	23	3		
False	event_name	varchar	False	False	100	0	0		
False	notes	varchar	False	False	102	0	0		
					4				
False	snow	bit	True	False	0	1	0	((0))	
False	blizzard	bit	True	False	0	1	0	((0))	
False	ice	bit	True	False	0	1	0	((0))	
False	freezing_rain	bit	True	False	0	1	0	((0))	
False	sleet	bit	True	False	0	1	0	((0))	
False	black_ice	bit	True	False	0	1	0	((0))	
False	transportation_inci dent	bit	True	False	0	1	0	((0))	
False	severe_weather	bit	True	False	0	1	0	((0))	
False	hurricane	bit	True	False	0	1	0	((0))	
False	natural_disaster	bit	True	False	0	1	0	((0))	
False	man_made_disast er	bit	True	False	0	1	0	((0))	
False	radiological_incide	bit	True	False	0	1	0	((0))	

	nt								
False	public_health_incident	bit	True	False	0	1	0	((0))	
False	terrorist_incident	bit	True	False	0	1	0	((0))	
False	seasonID	uniqueidentifier	True	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Event	Public	eventID		
FK_EORS_Event_Season_ID	Public	seasonID		
FK_EORS_Event_eventTypeID	Public	eventTypeID		

### Relationships

Columns	Association	Notes
(eventID = eventID)	<b>0..*</b> EORS_Event__Debris.FK_EORS_Event__Debris_eventID <b>1</b> EORS_Event.PK_EORS_Event	
(eventID = eventID)	<b>0..*</b> EORS_Event_Shop_Report_Materials.FK_EORS_Event_Shop_Report_Materials_eventID <b>1</b> EORS_Event.PK_EORS_Event	
(eventID = eventID)	<b>0..*</b> EORS_Event_Shop_Reports.fk_eors_event_shop_reports_eventID <b>1</b> EORS_Event.PK_EORS_Event	
(eventTypeID = eventTypeID)	<b>0..*</b> EORS_Event.FK_EORS_Event_eventTypeID <b>1</b> EORS_Event_Types.PK_EORS_Event_Types	
(seasonID = seasonID)	<b>0..*</b> EORS_Event.FK_EORS_Event_SeasonID <b>1</b> EORS_Common_Existing_Seasons.PK_EORS_Common_Exis_181AEBB0	

## EORS\_EventMapping\_Color\_Codes

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	conditionID	int	True	True	0	0	0		
False	condition	varchar	True	False	25	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_EventMapping_Color_Codes	Public	conditionID		

## EORS\_EventMapping\_Route\_Directions

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	routeDirectionID	uniqueid entifier	True	True	0	0	0	(newid () )	
False	route	varchar	True	False	10	0	0		
False	direction	varchar	True	False	5	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_EventMapping _Route_Directions	Public	routeDirectionID		
IDX_EORS_EventMappin g_Route_Directions_route	Public	route		
IDX_EORS_EventMappin g_Route_Directions_direct ion	Public	direction		

## EORS\_EventMapping\_Route\_Segments

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	segmentID	uniqueid entifier	True	True	0	0	0	(newid () )	
False	route	varchar	True	False	10	0	0		
False	segment	varchar	True	False	2	0	0		
False	limits	varchar	True	False	255	0	0		
False	shopID	uniqueid entifier	True	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_EventMapping _Route_Segments	Public	segmentID		
IDX_EORS_EventMappin g_Route_Segments_route	Public	route		
IDX_EORS_EventMappin g_Route_Segments_shopl D	Public	shopID		

## EORS\_EventMapping\_Segment\_Conditions

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	segmentConditionID	uniqueid identifier	True	True	0	0	0	(newid ())	
False	route_and_direction	uniqueid identifier	True	False	0	0	0		
False	segment	uniqueid identifier	True	False	0	0	0		
False	condition	varchar	True	False	255	0	0		
False	notes	varchar	False	False	1024	0	0		
False	date	datetime	True	False	0	23	3	(getdate())	

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_EORS_EventMapping_segment_conditions	Public	segmentConditionID		

## EORS\_Event\_IPS\_Color\_Codes

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	colorCodeID	uniqueid identifier	True	False	0	0	0	(newid ())	
False	roadConditionID	uniqueid identifier	True	False	0	0	0		
False	code	int	True	False	0	0	0		

## EORS\_Event\_Shop\_Report\_Materials

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	materialsID	uniqueid identifier	True	True	0	0	0	(newid ())	
False	eventID	varchar	True	False	20	0	0		
False	shopID	uniqueid identifier	True	False	0	0	0		
False	salt	int	True	False	0	0	0	((0))	
False	abrasives	int	True	False	0	0	0	((0))	
False	magnesium_chlori	int	True	False	0	0	0	((0))	

	de									
False	magnesium_chloride_enhanced	int	True	False	0	0	0	((0))		
False	calcium_chloride	int	True	False	0	0	0	((0))		
False	calcium_chloride_enhanced	int	True	False	0	0	0	((0))		
False	salt_brine	int	True	False	0	0	0	((0))		
False	salt_brine_enhanced	int	True	False	0	0	0	((0))		
False	potassium_acetate	int	True	False	0	0	0	((0))		
False	asphalt	int	True	False	0	0	0	((0))		
False	concrete	int	True	False	0	0	0	((0))		
False	stone	int	True	False	0	0	0	((0))		
False	sand	int	True	False	0	0	0	((0))		
False	meals	money	True	False	0	19	4	((0))		
False	misc	money	True	False	0	19	4	((0))		

### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_EORS_Event_Shop_Report_Materials	Public	materialsID		
FK_EORS_Event_Shop_Report_Materials_shopID	Public	shopID		
FK_EORS_Event_Shop_Report_Materials_eventID	Public	eventID		

### **Relationships**

Columns	Association	Notes
(eventID = eventID)	0..* EORS_Event_Shop_Report_Materials.FK_EORS_Event_Shop_Report_Materials_eventID 1 EORS_Event.PK_EORS_Event	
(shopID = shopID)	0..* EORS_Event_Shop_Report_Materials.FK_EORS_Event_Shop_Report_Materials_shopID 1 EORS_Common_Shop.PK_EORS_Common_Shop	

## **EORS\_Event\_Shop\_Report\_Operations**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	operationsID	uniqueid entifier	True	True	0	0	0	(newid ())	
False	opsTypeID	uniqueid entifier	True	False	0	0	0		
False	anti_icicing	bit	True	False	0	1	0	((0))	
False	salting	bit	True	False	0	1	0	((0))	
False	plowing	bit	True	False	0	1	0	((0))	
False	applying_abrasive	bit	True	False	0	1	0	((0))	

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False	push_back_shoulders	bit	True	False	0	1	0	((0))		
False	clearing_snow_drifts	bit	True	False	0	1	0	((0))		
False	hauling_snow	bit	True	False	0	1	0	((0))		
False	treating_hot_spots	bit	True	False	0	1	0	((0))		
False	route_patrol	bit	True	False	0	1	0	((0))		
False	cleaning_inlets	bit	True	False	0	1	0	((0))		
False	removing_debris	bit	True	False	0	1	0	((0))		
False	clearing_trees	bit	True	False	0	1	0	((0))		
False	traffic_control	bit	True	False	0	1	0	((0))		
False	roadway_repairs	bit	True	False	0	1	0	((0))		
False	roadside_repairs	bit	True	False	0	1	0	((0))		
False	assist_other_agencies	varchar	False	False	255	0	0			
False	other	varchar	False	False	255	0	0			

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Event_Shop_Report_Operations	Public	operationsID		
fk_eors_event_shop_report_operations_opsTypeID	Public	opsTypeID		

### Relationships

Columns	Association	Notes
(operationsID = operationsID)	0..* EORS_Event_Shop_Reports.fk_eors_event_shop_reports_operationsID 1 EORS_Event_Shop_Report_Operations.PK_EORS_Event_Shop_Report_Operations	
(opsTypeID = opsTypeID)	0..* EORS_Event_Shop_Report_Operations.fk_eors_event_shop_report_operations_opsTypeID 1 EORS_Event_Operations_Types.PK_EORS_Event_Operations_Types	

## EORS\_Event\_Shop\_Report\_Resources

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	resourcesID	uniqueidentifer	True	True	0	0	0	(newid())	
False	personnel	smallint	True	False	0	5	0	((1))	
False	dumpers	smallint	True	False	0	5	0	((0))	
False	loaders	smallint	True	False	0	5	0	((0))	

False	blowers	smallint	True	False	0	5	0	((0))	
False	graders	smallint	True	False	0	5	0	((0))	
False	excavators	smallint	True	False	0	5	0	((0))	
False	bobcats	smallint	True	False	0	5	0	((0))	
False	backhoes	smallint	True	False	0	5	0	((0))	
False	pickups	smallint	True	False	0	5	0	((0))	
False	utility_trucks	smallint	True	False	0	5	0	((0))	
False	wreckers	smallint	True	False	0	5	0	((0))	
False	chippers	smallint	True	False	0	5	0	((0))	
False	portable_DMS	smallint	True	False	0	5	0	((0))	
False	light_towers	smallint	True	False	0	5	0	((0))	
False	sewer_vacs	smallint	True	False	0	5	0	((0))	
False	sweepers	smallint	True	False	0	5	0	((0))	
False	skid_streets	smallint	True	False	0	5	0	((0))	
False	tractor_trailers	smallint	True	False	0	5	0	((0))	
False	other	smallint	True	False	0	5	0	((0))	
False	redep_personnel	smallint	True	False	0	5	0	((1))	
False	redep_dumpers	smallint	True	False	0	5	0	((0))	
False	redep_loaders	smallint	True	False	0	5	0	((0))	
False	redep_blowers	smallint	True	False	0	5	0	((0))	
False	redep_graders	smallint	True	False	0	5	0	((0))	
False	redep_excavators	smallint	True	False	0	5	0	((0))	
False	redep_bobcats	smallint	True	False	0	5	0	((0))	
False	redep_backhoes	smallint	True	False	0	5	0	((0))	
False	redep_pickups	smallint	True	False	0	5	0	((0))	
False	redep_utility_trucks	smallint	True	False	0	5	0	((0))	
False	redep_wreckers	smallint	True	False	0	5	0	((0))	
False	redep_chippers	smallint	True	False	0	5	0	((0))	
False	redep_portable_DMS	smallint	True	False	0	5	0	((0))	
False	redep_light_towers	smallint	True	False	0	5	0	((0))	
False	redep_sewer_vacs	smallint	True	False	0	5	0	((0))	
False	redep_sweepers	smallint	True	False	0	5	0	((0))	
False	redep_skid_streets	smallint	True	False	0	5	0	((0))	
False	redep_tractor_trailers	smallint	True	False	0	5	0	((0))	
False	redep_other	smallint	True	False	0	5	0	((0))	
False	redep_notes	varchar	False	False	900	0	0		
False	con_dumpers	smallint	True	False	0	5	0	((0))	
False	con_loaders	smallint	True	False	0	5	0	((0))	
False	con_blowers	smallint	True	False	0	5	0	((0))	
False	con_graders	smallint	True	False	0	5	0	((0))	
False	con_excavators	smallint	True	False	0	5	0	((0))	
False	con_bobcats	smallint	True	False	0	5	0	((0))	
False	con_backhoes	smallint	True	False	0	5	0	((0))	
False	con_pickups	smallint	True	False	0	5	0	((0))	
False	con_utility_trucks	smallint	True	False	0	5	0	((0))	
False	con_wreckers	smallint	True	False	0	5	0	((0))	
False	con_chippers	smallint	True	False	0	5	0	((0))	
False	con_supervisor_vehicles	smallint	True	False	0	5	0	((0))	
False	con_portable_DM	smallint	True	False	0	5	0	((0))	

	S									
False	con_light_towers	smallint	True	False	0	5	0	((0))		
False	con_sewer_vacs	smallint	True	False	0	5	0	((0))		
False	con_sweepers	smallint	True	False	0	5	0	((0))		
False	con_skid_steurs	smallint	True	False	0	5	0	((0))		
False	con_crane	smallint	True	False	0	5	0	((0))		
False	con_tractor_trailer	smallint	True	False	0	5	0	((0))		
False	con_other	smallint	True	False	0	5	0	((0))		
False	light_tow	smallint	False	False	0	5	0	((0))		
False	redep_light_tow	smallint	False	False	0	5	0	((0))		
False	con_light_tow	smallint	False	False	0	5	0	((0))		

### ***Constraints***

Name	Type	Columns	Initial Code	Notes
PK_EORS_Event_Shop_Report_Resources	Public	resourcesID		

### ***Relationships***

Columns	Association	Notes
(resourcesID = resourcesID)	0..* EORS_Event_Shop_Report_Reports.fk_eors_event_shop_reports_resourcesID 1 EORS_Event_Shop_Report_Resources.PK_EORS_Event_Shop_Report_Resources	

## **EORS\_Event\_Shop\_Report\_Roads**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### ***Columns***

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	roadsID	uniqueidentifier	True	True	0	0	0	(newid())	
False	interstate_cond	uniqueidentifier	True	False	0	0	0		
False	primary_cond	uniqueidentifier	True	False	0	0	0		
False	secondary_cond	uniqueidentifier	True	False	0	0	0		

### ***Constraints***

Name	Type	Columns	Initial Code	Notes
PK_EORS_Event_Shop_Report_Roads	Public	roadsID		
FK_EORS_Event_Shop_Report_Roads_primary	Public	primary_cond		
FK_EORS_Event_Shop_Report_Roads_secondary	Public	secondary_cond		
FK_EORS_Event_Shop_Report_Roads_interstate	Public	interstate_cond		

Name	Type	Columns	Initial Code	Notes
eport_Roads_interstate				

### Relationships

Columns	Association	Notes
(interstate_cond = roadConditionID)	<p><b>0..*</b>  EORS_Event_Shop_Report_Roads.FK_EORS_Event_Shop_Report_Roads_interstate  <b>1</b>  EORS_Event__Road_Conditions.PK_EORS_Event__Road_Conditions</p>	
(primary_cond = roadConditionID)	<p><b>0..*</b>  EORS_Event_Shop_Report_Roads.FK_EORS_Event_Shop_Report_Roads_primary  <b>1</b>  EORS_Event__Road_Conditions.PK_EORS_Event__Road_Conditions</p>	
(roadsID = roadsID)	<p><b>0..*</b>  EORS_Event_Shop_Reports.fk_eors_event_shop_reports_roadsID  <b>1</b>  EORS_Event_Shop_Report_Roads.PK_EORS_Event_Shop_Report_Roads</p>	
(secondary_cond = roadConditionID)	<p><b>0..*</b>  EORS_Event_Shop_Report_Roads.FK_EORS_Event_Shop_Report_Roads_secondary  <b>1</b>  EORS_Event__Road_Conditions.PK_EORS_Event__Road_Conditions</p>	

### EORS\_Event\_Shop\_Report\_Weather

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	weatherID	uniqueid entifier	True	True	0	0	0	(newid ())	
False	clear	bit	True	False	0	1	0	((0))	
False	cloudy	bit	True	False	0	1	0	((0))	
False	precip	bit	True	False	0	1	0	((0))	
False	snow	bit	True	False	0	1	0	((0))	
False	sleet	bit	True	False	0	1	0	((0))	
False	rain	bit	True	False	0	1	0	((0))	
False	heavy_rain	bit	True	False	0	1	0	((0))	
False	fog	bit	True	False	0	1	0	((0))	
False	ice	bit	True	False	0	1	0	((0))	
False	hail	bit	True	False	0	1	0	((0))	
False	high_winds	bit	True	False	0	1	0	((0))	
False	thunder_storms	bit	True	False	0	1	0	((0))	
False	temperature	float	False	False	0	53	0		

False	avg_depth	float	False	False	0	53	0	((0))	
False	ice_depth	float	False	False	0	53	0	((0))	
False	primaryID	uniqueid entifier	False	False	0	0	0		
False	secondaryID	uniqueid entifier	False	False	0	0	0		
False	primary_name	varchar	False	False	100	0	0		
False	secondary_name	varchar	False	False	100	0	0		
False	primary_date	datetime	False	False	0	23	3		
False	secondary_date	datetime	False	False	0	23	3		
False	primary_sfc	float	False	False	0	53	0		
False	secondary_sfc	float	False	False	0	53	0		

#### ***Constraints***

Name	Type	Columns	Initial Code	Notes
PK_EORS_Event_Shop_Report_Weather	Public	weatherID		

#### ***Relationships***

Columns	Association	Notes
(weatherID = weatherID)	0..* EORS_Event_Shop_Report_Reports.fk_eors_event_shop_reports_weatherID 1 EORS_Event_Shop_Report_Weather.PK_EORS_Event_Shop_Report_Weather	

## **EORS\_Event\_Shop\_Reports**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### ***Columns***

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	reportID	uniqueid entifier	True	True	0	0	0	(newid ())	
False	eventID	varchar	True	False	20	0	0		
False	shopID	uniqueid entifier	True	False	0	0	0		
False	report_num	int	True	False	0	0	0		
False	report_date	datetime	True	False	0	23	3		
False	comments	varchar	False	False	900	0	0		
False	operationsID	uniqueid entifier	True	False	0	0	0		
False	resourcesID	uniqueid entifier	True	False	0	0	0		
False	roadsID	uniqueid entifier	True	False	0	0	0		
False	weatherID	uniqueid entifier	True	False	0	0	0		
False	reportedBy	varchar	False	False	50	0	0		
False	reg_hours	float	True	False	0	53	0	((0))	

False	ot_hours	float	True	False	0	53	0	((0))	
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### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Event_Winter_Shop_Reports	Public	reportID		
fk_eors_event_shop_repor ts_shopID	Public	shopID		
fk_eors_event_shop_repor ts_eventID	Public	eventID		
fk_eors_event_shop_repor ts_operationsID	Public	operationsID		
fk_eors_event_shop_repor ts_resourcesID	Public	resourcesID		
fk_eors_event_shop_repor ts_roadsID	Public	roadsID		
fk_eors_event_shop_repor ts_weatherID	Public	weatherID		

### Relationships

Columns	Association	Notes
(eventID = eventID)	<p><b>0..*</b>            EORS_Event_Shop_Reports.fk_eors_event_shop_reports_eventID  <b>1</b> EORS_Event.PK_EORS_Event</p>	
(operationsID = operationsID)	<p><b>0..*</b>            EORS_Event_Shop_Reports.fk_eors_event_shop_reports_operationsID  <b>1</b>            EORS_Event_Shop_Report_Operations.PK_EORS_Event_Shop_Report_Operations</p>	
(resourcesID = resourcesID)	<p><b>0..*</b>            EORS_Event_Shop_Reports.fk_eors_event_shop_reports_resourcesID  <b>1</b>            EORS_Event_Shop_Report_Resources.PK_EORS_Event_Shop_Report_Resources</p>	
(roadsID = roadsID)	<p><b>0..*</b>            EORS_Event_Shop_Reports.fk_eors_event_shop_reports_roadsID  <b>1</b>            EORS_Event_Shop_Report_Roads.PK_EORS_Event_Shop_Report_Roads</p>	
(shopID = shopID)	<p><b>0..*</b>            EORS_Event_Shop_Reports.fk_eors_event_shop_reports_shopID  <b>1</b> EORS_Common_Shop.PK_EORS_Common_Shop</p>	
(weatherID = weatherID)	<p><b>0..*</b>            EORS_Event_Shop_Reports.fk_eors_event_shop_reports_weatherID  <b>1</b>            EORS_Event_Shop_Report_Weather.PK_EORS_Event_Shop_Report_Weather</p>	

## EORS\_Event\_Debris

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	eventID	varchar	True	True	20	0	0		
True	shopID	uniqueid entifier	True	True	0	0	0		
False	debris	money	True	False	0	19	4	((0))	
False	userID	int	True	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Event_Debris	Public	eventID shopID		
FK_EORS_Event_Debris _eventID	Public	eventID		
FK_EORS_Event_Debris _userID	Public	userID		

### Relationships

Columns	Association	Notes
(eventID = eventID)	0..* EORS_Event_Debris.FK_EORS_Event_Debris_eventID 1 EORS_Event.PK_EORS_Event	
(userID = UserID)	0..* EORS_Event_Debris.FK_EORS_Event_Debris.UserID 1 Users.PK_Users	

## EORS\_Event\_Operations\_Types

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	opsTypeID	uniqueid entifier	True	True	0	0	0	(newid ())	
False	ops_type	varchar	True	False	25	0	0		
False	ordinal	tinyint	True	False	0	3	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Event_Operations_Types	Public	opsTypeID		
IDX_EORS_Event_Oper	Public	ordinal		

Name	Type	Columns	Initial Code	Notes
actions_Types_ordinal				

### Relationships

Columns	Association	Notes
(opsTypeID = opsTypeID)	<p>0..*</p> <p>EORS_Event_Shop_Report_Operations.fk_eors_event_shop_report_operations_opsTypeID</p> <p>1</p> <p>EORS_Event_Operations_Types.PK_EORS_Event_Operations_Types</p>	

## **EORS\_Event\_Road\_Conditions**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	roadConditionID	uniqueid entifier	True	True	0	0	0	(newid ())	
False	road_condition	varchar	True	False	35	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Event_Road_Conditions	Public	roadConditionID		

### Relationships

Columns	Association	Notes
(interstate_cond = roadConditionID)	<p>0..*</p> <p>EORS_Event_Shop_Report_Roads.FK_EORS_Event_Shop_Report_Roads_interstate</p> <p>1</p> <p>EORS_Event_Road_Conditions.PK_EORS_Event_Road_Conditions</p>	
(primary_cond = roadConditionID)	<p>0..*</p> <p>EORS_Event_Shop_Report_Roads.FK_EORS_Event_Shop_Report_Roads_primary</p> <p>1</p> <p>EORS_Event_Road_Conditions.PK_EORS_Event_Road_Conditions</p>	
(secondary_cond = roadConditionID)	<p>0..*</p> <p>EORS_Event_Shop_Report_Roads.FK_EORS_Event_Shop_Report_Roads_secondary</p> <p>1</p> <p>EORS_Event_Road_Conditions.PK_EORS_Event_Road_Conditions</p>	

## **EORS\_Event\_Types**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	eventTypeID	uniqueid entifier	True	True	0	0	0	(newid ())	
False	event_type	varchar	True	False	50	0	0		
False	ordinal	tinyint	True	False	0	3	0		

#### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_EORS_Event__Types	Public	eventTypeID		
IDX_EORS_Event__Type s_ordinal	Public	ordinal		

#### **Relationships**

Columns	Association	Notes
(eventTypeID = eventTypeID)	0..*EORS_Event.FK_EORS_Event_eventTypeID 1 EORS_Event__Types.PK_EORS_Event__Types	

## **EORS\_Events\_Notifier**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	recipient	varchar	True	False	255	0	0		
False	cc	varchar	False	False	255	0	0		
False	bcc	varchar	False	False	255	0	0		
False	subject	varchar	True	False	255	0	0		
False	open_limit	int	False	False	0	0	0		
False	paused_limit	int	False	False	0	0	0		
False	open_enabled	bit	True	False	0	1	0		
False	paused_enabled	bit	True	False	0	1	0		

## **EORS\_HP\_Responsible\_Parties**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	Party_ID	int	True	True	0	0	0		
False	name	varchar	True	False	10	0	0		

#### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK__EORS_HP_Responsi	Public	Party_ID		

Name	Type	Columns	Initial Code	Notes
__127AB1E3				

## EORS\_RWIS\_Info

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	RwisID	uniqueid entifier	True	True	0	0	0	(newid ())	
False	location	varchar	True	False	100	0	0		
False	countyID	uniqueid entifier	False	False	0	0	0		
False	rpu_number	int	False	False	0	0	0		
False	sysid	int	False	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_RWIS_Info	Public	RwisID		
IDX_EORS_RWIS_Info	Public	location		
FK_EORS_RWIS_Info_co unty	Public	countyID		

### Relationships

Columns	Association	Notes
(countyID = ID)	0..* EORS_RWIS_Info.FK_EORS_RWIS_Info_county 1 EORS_Common_County.PK_EORS_COMMON_Cou nty	
(primary_RWIS = RwisID)	0..* EORS_Shop_RWIS.FK_EORS_shop_primary_RWIS 1 EORS_RWIS_Info.PK_EORS_RWIS_Info	
(secondary_RWIS = RwisID)	0..* EORS_Shop_RWIS.FK_EORS_shop_secondary_RWI S 1 EORS_RWIS_Info.PK_EORS_RWIS_Info	

## EORS\_Rates

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ratesID	uniqueid entifier	True	True	0	0	0	(newid ())	
False	shopID	uniqueid	True	False	0	0	0		

		entifier							
False	personnel	money	True	False	0	19	4	((0))	
False	dumpers	money	True	False	0	19	4	((0))	
False	loaders	money	True	False	0	19	4	((0))	
False	graders	money	True	False	0	19	4	((0))	
False	pickups_autos	money	True	False	0	19	4	((0))	
False	excavators	money	True	False	0	19	4	((0))	
False	wreckers	money	True	False	0	19	4	((0))	
False	blowers	money	True	False	0	19	4	((0))	
False	sweepers	money	True	False	0	19	4	((0))	
False	chippers	money	True	False	0	19	4	((0))	
False	bobcats	money	True	False	0	19	4	((0))	
False	backhoes	money	True	False	0	19	4	((0))	
False	utility_trucks	money	True	False	0	19	4	((0))	
False	portable_DMS	money	True	False	0	19	4	((0))	
False	skid_steers	money	True	False	0	19	4	((0))	
False	light_towers	money	True	False	0	19	4	((0))	
False	sewer_vacuums	money	True	False	0	19	4	((0))	
False	other	money	True	False	0	19	4	((0))	
False	tractor_trailers	money	True	False	0	19	4	((0))	
False	con_dumpers	money	True	False	0	19	4	((0))	
False	con_loaders	money	True	False	0	19	4	((0))	
False	con_graders	money	True	False	0	19	4	((0))	
False	con_pickups_auto_s	money	True	False	0	19	4	((0))	
False	con_blowers	money	True	False	0	19	4	((0))	
False	con_excavators	money	True	False	0	19	4	((0))	
False	con_wreckers	money	True	False	0	19	4	((0))	
False	con_sweepers	money	True	False	0	19	4	((0))	
False	con_chippers	money	True	False	0	19	4	((0))	
False	con_bobcats	money	True	False	0	19	4	((0))	
False	con_backhoes	money	True	False	0	19	4	((0))	
False	con_portable_DM_S	money	True	False	0	19	4	((0))	
False	con_skid_steers	money	True	False	0	19	4	((0))	
False	con_supervisor_vehicles	money	True	False	0	19	4	((0))	
False	con_light_towers	money	True	False	0	19	4	((0))	
False	con_sewer_vacuums	money	True	False	0	19	4	((0))	
False	con_utility_trucks	money	True	False	0	19	4	((0))	
False	con_tractor_trailers	money	True	False	0	19	4	((0))	
False	con_other	money	True	False	0	19	4	((0))	
False	con_crane	money	True	False	0	19	4	((0))	
False	Salt	money	True	False	0	19	4	((0))	
False	Abrasives	money	True	False	0	19	4	((0))	
False	mag	money	True	False	0	19	4	((0))	
False	mag_enhanced	money	True	False	0	19	4	((0))	
False	calcium	money	True	False	0	19	4	((0))	
False	calcium_enhanced	money	True	False	0	19	4	((0))	
False	salt_brine	money	True	False	0	19	4	((0))	
False	salt_brine_enhanced	money	True	False	0	19	4	((0))	

False	potassium	money	True	False	0	19	4	((0))	
False	asphalt	money	True	False	0	19	4	((0))	
False	concrete	money	True	False	0	19	4	((0))	
False	stone	money	True	False	0	19	4	((0))	
False	sand	money	True	False	0	19	4	((0))	
False	seasonID	uniqueid entifier	True	False	0	0	0		
False	light_tow	money	False	False	0	19	4	((0))	
False	con_light_tow	money	False	False	0	19	4	((0))	

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Rates	Public	ratesID		
IX_EORS_Rates_season	Public	seasonID		
IX_EORS_Rates_shop	Public	shopID		
FK_EORS_Rates_EORS_Common_Existing_Seasons_season	Public	seasonID		
FK_EORS_Rates_EORS_Common_Shop_shop	Public	shopID		

### Relationships

Columns	Association	Notes
(seasonID = seasonID)	0..* EORS_Rates.FK_EORS_Rates_EORS_Common_Existing_Seasons_season 1 EORS_Common_Existing_Seasons.PK__EORS_Common_Exis__181AEBB0	
(shopID = shopID)	0..* EORS_Rates.FK_EORS_Rates_EORS_Common_Shop_shop 1 EORS_Common_Shop.PK_EORS_Common_Shop	

## EORS\_Report\_OOM\_Averages\_Lkp

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	shop	varchar	False	False	4	0	0		
False	district	int	False	False	0	0	0		
False	average	float	True	False	0	53	0		

## EORS\_Route\_Restriction

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	rrid	uniqueid entifier	True	True	0	0	0	(newid ())	
False	date_created	datetime	True	False	0	23	3		
False	created_by	int	True	False	0	0	0		
False	start_date	datetime	True	False	0	23	3		
False	start_county_ID	uniqueid entifier	False	False	0	0	0		
False	end_county_ID	uniqueid entifier	False	False	0	0	0		
False	location_area	varchar	False	False	100	0	0	(null)	
False	location_route_type_ID	uniqueid entifier	False	False	0	0	0	(null)	
False	location_route_number	int	False	False	0	0	0	(0)	
False	intersect_route_type_from_ID	uniqueid entifier	False	False	0	0	0	(null)	
False	intersect_route_number_from	int	False	False	0	0	0	(0)	
False	intersect_route_type_to_ID	uniqueid entifier	False	False	0	0	0	(null)	
False	intersect_route_number_to	int	False	False	0	0	0	(null)	
False	intersect_road_from	varchar	False	False	50	0	0	(null)	
False	intersect_road_to	varchar	False	False	50	0	0	(null)	
False	limits_from	varchar	False	False	50	0	0	(null)	
False	limits_to	varchar	False	False	50	0	0	(null)	
False	exit_from	varchar	False	False	4	0	0	(null)	
False	exit_to	varchar	False	False	4	0	0	(null)	
False	mp_from	tinyint	False	False	0	3	0	(0)	
False	mp_to	tinyint	False	False	0	3	0	(0)	
False	otherFrom	varchar	False	False	100	0	0	(null)	
False	otherTo	varchar	False	False	100	0	0	(null)	
False	direction_ID	uniqueid entifier	False	False	0	0	0	(null)	
False	direction	varchar	False	False	36	0	0	(null)	
False	description	varchar	True	False	200	0	0		
False	active	bit	True	False	0	1	0	(1)	
False	closed_to_permit_loads	bit	True	False	0	1	0	(0)	
False	until_further_notice	bit	True	False	0	1	0	(0)	
False	isMapped	bit	True	False	0	1	0	(0)	

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Route_Restriction	Public	rrid		
IX_EORS_Route_Restricti	Public	start_date		

Name	Type	Columns	Initial Code	Notes
on_start_date				
IX_EORS_Route_Restricti on_location_area	Public	location_area		
IX_EORS_Route_Restricti on_location_route_num	Public	location_route_nu m		
IX_EORS_Route_Restricti on_location_route_type_ID	Public	location_route_typ e_ID		
IX_EORS_Route_Restricti on_start_county_ID	Public	start_county_ID		

## EORS\_SARS\_CHART

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 1/4/2017.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	update_time	datetime	True	False	0	23	3		
False	update_by	varchar	True	False	50	0	0		
False	update_email	varchar( max)	True	False	0	0	0		
False	toc3_route_patrols	varchar( max)	False	False	0	0	0		
False	toc4_route_patrols	varchar( max)	False	False	0	0	0		
False	toc7_route_patrols	varchar( max)	False	False	0	0	0		
False	soc_wreckers	varchar( max)	False	False	0	0	0		
False	soc_route_patrols	varchar( max)	False	False	0	0	0		
True	chartID	uniqueid entifier	True	True	0	0	0	Newid ( )	
False	eventID	Varchar( 20)	True	False	0	0	0		

## EORS\_SARS\_District

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 1/4/2017.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	update_time	datetime	True	False	0	23	3		
False	update_by	varchar	True	False	50	0	0		
False	update_email	varchar( max)	True	False	0	0	0		
False	district	int	True	False	0	0	0		

False	summary	varchar(max)	False	False	0	0	0			
True	districtID	uniqueid entifier	True	True	0	0	0	Newid()		
False	eventID	varchar(20)	True	False	0	0	0			

## EORS\_SARS\_PIO

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 1/4/2017.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	update_time	datetime	True	False	0	23	3		
False	update_by	varchar	True	False	50	0	0		
False	update_email	varchar(max)	True	False	0	0	0		
False	summary	varchar(max)	False	False	0	0	0		
True	piolD	uniqueid entifier	True	True	0	0	0	Newid()	
False	eventID	varchar(20)	True	False	0	0	0		

## EORS\_SARS\_State

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 1/4/2017.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	update_time	datetime	True	False	0	23	3		
False	update_by	varchar	True	False	50	0	0		
False	update_email	varchar	True	False	500	0	0		
False	summary	varchar(max)	False	False	0	0	0		
False	others	varchar(max)	False	False	0	0	0		
True	stateID	uniqueid entifier	True	True	0	0	0	Newid()	
False	eventID	Varchar(20)	True	False	0	0	0		

## EORS\_SARS\_Report

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 04/24/2017. Last modified on 04/24/2017.

Notes:

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	reportID	uniqueid entifier	True	True	0	0	0	Newid ()	
False	eventID	varchar	True	False	20	0	0		
False	seasonID	uniqueid entifier	True	False	0	0	0		
False	date_created	datetime	True	False	0	0	0		
False	created_by	varchar	True	False	50	0	0		
False	creator_email	varchar	True	False	254	0	0		
False	report_number	int	True	False	0	0	0		
False	report_name	varchar	True	False	255	0	0		
False	outlook_groups	varchar	False	False	max	0	0		

**EORS\_Salt\_Dome\_Info**

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	shop	varchar	True	False	4	0	0		
False	dome	varchar	True	False	20	0	0		
False	info	varchar	True	False	255	0	0		
False	capacity	int	True	False	0	0	0		
False	high_priority	int	True	False	0	0	0		
False	record_id	int	True	False	0	0	0		
False	DomeSiteID	varchar	False	False	50	0	0		
False	percent_usage	float	True	False	0	53	0	((0))	
False	statewide_avg	float	True	False	0	53	0	((967))	
False	dome_lane_miles	float	True	False	0	53	0	((1))	

**EORS\_Shop\_Equipment\_Inventory**

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	shopID	uniqueid entifier	True	True	0	0	0		
False	dumpers	int	True	False	0	0	0	((0))	
False	loaders	int	True	False	0	0	0	((0))	
False	graders	int	True	False	0	0	0	((0))	
False	blowers	int	True	False	0	0	0	((0))	

### ***Constraints***

Name	Type	Columns	Initial Code	Notes
PK_EORS_Shop_Equipment_Inventory	Public	shopID		

## **EORS\_Shop\_RWIS**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### ***Columns***

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	shopID	uniqueid entifier	True	True	0	0	0		
False	primary_RWIS	uniqueid entifier	False	False	0	0	0		
False	secondary_RWIS	uniqueid entifier	False	False	0	0	0		

### ***Constraints***

Name	Type	Columns	Initial Code	Notes
PK_EORS_shop_RWIS	Public	shopID		
FK_EORS_shop_primary_RWIS	Public	primary_RWIS		
FK_EORS_shop_secondary_RWIS	Public	secondary_RWIS		

### ***Relationships***

Columns	Association	Notes
(primary_RWIS = RwisID)	0..* EORS_Shop_RWIS.FK_EORS_shop_primary_RWIS 1 EORS_RWIS_Info.PK_EORS_RWIS_Info	
(secondary_RWIS = RwisID)	0..* EORS_Shop_RWIS.FK_EORS_shop_secondary_RWI S 1 EORS_RWIS_Info.PK_EORS_RWIS_Info	

## **EORS\_Snow\_Emergency**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### ***Columns***

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	snowEmergencyID	uniqueid entifier	True	True	0	0	0		
False	countyID	uniqueid entifier	True	False	0	0	0		
False	county	int	True	False	0	0	0		

False	declared	datetime	True	False	0	23	3			
False	lifted	datetime	False	False	0	23	3			
False	exceptions	varchar	False	False	204 8	0	0			
False	countyIN	bit	True	False	0	1	0			

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_Snow_Emergency	Public	snowEmergencyID		
IX_EORS_Snow_Emergency_declared	Public	declared		
IX_EORS_Snow_Emergency_countyID	Public	countyID		
IX_EORS_Snow_Emergency_lifted	Public	lifted		
FK_EORS_Snow_Emergency_countyID	Public	countyID		

### Relationships

Columns	Association	Notes
(countyID = ID)	<p>0..*</p> <p>EORS_Snow_Emergency.FK_EORS_Snow_Emergency_countyID</p> <p>1</p> <p>EORS_Common_County.PK__EORS_COMMON_County</p>	

## **EORS\_WSEvent**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	ModuleID	int	True	False	0	0	0		
True	ItemID	int	True	True	0	0	0		
False	Content	ntext	True	False	0	0	0		
False	CreatedByUser	int	True	False	0	0	0		
False	CreatedDate	datetime	True	False	0	23	3		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EORS_WSEvent	Public	ItemID		
IX_EORS_WSEvent	Public	ModuleID		

## **EventLog**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	LogGUID	varchar	True	True	36	0	0		
False	LogTypeKey	nvarchar	True	False	35	0	0		
False	LogConfigID	int	False	False	0	0	0		
False	LogUserID	int	False	False	0	0	0		
False	LogUserName	nvarchar	False	False	50	0	0		
False	LogPortalID	int	False	False	0	0	0		
False	LogPortalName	nvarchar	False	False	100	0	0		
False	LogCreateDate	datetime	True	False	0	23	3		
False	LogServerName	nvarchar	True	False	50	0	0		
False	LogProperties	ntext	True	False	0	0	0		
False	LogNotificationPending	bit	False	False	0	1	0		

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_EventLogMaster	Public	LogGUID		
IX_EventLog	Public	LogConfigID LogTypeKey LogCreateDate		

## EventLogConfig

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.*Notes:***Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ID	int	True	True	0	0	0		
False	LogTypeKey	nvarchar	False	False	35	0	0		
False	LogTypePortalID	int	False	False	0	0	0		
False	LoggingIsActive	bit	True	False	0	1	0		
False	KeepMostRecent	int	True	False	0	0	0		
False	EmailNotificationsActive	bit	True	False	0	1	0		
False	NotificationThreshold	int	False	False	0	0	0		
False	NotificationThresholdTime	int	False	False	0	0	0		
False	NotificationThresholdTimeType	int	False	False	0	0	0		
False	MailFromAddress	nvarchar	True	False	50	0	0		
False	MailToAddress	nvarchar	True	False	50	0	0		

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_EventLogConfig	Public	ID		

Name	Type	Columns	Initial Code	Notes
IX_LogTypeKey_LogType PortalID	Public	LogTypeKey LogTypePortalID		

## EventLogTypes

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	LogTypeKey	nvarchar	True	True	35	0	0		
False	LogTypeFriendlyName	nvarchar	True	False	50	0	0		
False	LogTypeDescription	nvarchar	True	False	128	0	0		
False	LogTypeOwner	nvarchar	True	False	100	0	0		
False	LogTypeCSSClasses	nvarchar	True	False	40	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_EventLogTypes	Public	LogTypeKey		

## EventQueue

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	EventMessageID	int	True	True	0	0	0		
False	EventName	nvarchar	True	False	100	0	0		
False	Priority	int	True	False	0	0	0		
False	ProcessorType	nvarchar	True	False	250	0	0		
False	ProcessorCommand	nvarchar	True	False	250	0	0		
False	Body	nvarchar	True	False	250	0	0		
False	Sender	nvarchar	True	False	250	0	0		
False	Subscriber	nvarchar	True	False	100	0	0		
False	AuthorizedRoles	nvarchar	True	False	250	0	0		
False	ExceptionMessage	nvarchar	True	False	250	0	0		
False	SentDate	datetime	True	False	0	23	3		
False	ExpirationDate	datetime	True	False	0	23	3		
False	Attributes	ntext	True	False	0	0	0		
False	IsComplete	bit	True	False	0	1	0	(0)	

### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_EventQueue	Public	EventMessageID		

### **FAQs**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ItemID	int	True	True	0	0	0		
False	ModuleID	int	True	False	0	0	0		
False	CreatedByUser	nvarchar	False	False	100	0	0		
False	CreatedDate	datetime	False	False	0	23	3		
False	Question	ntext	False	False	0	0	0		
False	Answer	ntext	False	False	0	0	0		

### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_FAQs	Public	ItemID		
IX_FAQs	Public	ModuleID		

### **Files**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	FileId	int	True	True	0	0	0		
False	PortalId	int	False	False	0	0	0		
False	FileName	nvarchar	True	True	100	0	0		
False	Extension	nvarchar	True	False	100	0	0		
False	Size	int	True	False	0	0	0		
False	Width	int	False	False	0	0	0		
False	Height	int	False	False	0	0	0		
False	ContentType	nvarchar	True	False	200	0	0		
False	Folder	nvarchar	False	False	200	0	0		
False	FolderID	int	True	True	0	0	0		
False	Content	image	False	False	0	0	0		

### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_File	Public	FileId		
IX_FileName	Public	FolderID FileName		

Name	Type	Columns	Initial Code	Notes
IX_Files	Public	PortalId		

## FolderPermission

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	FolderPermissionID	int	True	True	0	0	0		
False	FolderID	int	True	True	0	0	0		
False	PermissionID	int	True	True	0	0	0		
False	AllowAccess	bit	True	False	0	1	0		
False	RoleID	int	False	True	0	0	0		
False	UserID	int	False	True	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_FolderPermission	Public	FolderPermissionID		
IX_FolderPermission	Public	FolderID PermissionID RoleID UserID		
IX_FolderPermission_Modules	Public	FolderID		
IX_FolderPermission_Permission	Public	PermissionID		
IX_FolderPermission_Roles	Public	RoleID		
IX_FolderPermission_Users	Public	UserID		

## Folders

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	FolderID	int	True	True	0	0	0		
False	PortalID	int	False	True	0	0	0		
False	FolderPath	varchar	True	True	300	0	0		
False	StorageLocation	int	True	False	0	0	0	(0)	
False	IsProtected	bit	True	False	0	1	0	(0)	

False	IsCached	bit	True	False	0	1	0	(0)		
False	LastUpdated	datetime	False	False	0	23	3			

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Folders	Public	FolderID		
IX_FolderPath	Public	PortalID FolderPath		

## Forum\_Attachments

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	PostID	int	True	True	0	0	0		
True	FileName	nvarchar	True	True	255	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Forum_Attachment	Public	PostID FileName		

## Forum\_EditForums

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ForumID	int	True	True	0	0	0		
True	RoleID	int	True	True	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Forum_EditForums	Public	ForumID RoleID		

## Forum\_FilterWords

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre	Scal	Init	Notes

					<b>c</b>	<b>e</b>		
False	ItemID	int	True	False	0	0	0	
True	PortalID	int	True	True	0	0	0	
True	BadWord	nvarchar	True	True	50	0	0	
False	ReplacedWord	nvarchar	True	False	50	0	0	
False	CreatedBy	int	False	False	0	0	0	
False	CreatedOn	datetime	False	False	0	23	3	

### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_Forum_FilterWords	Public	PortalID BadWord		

## **Forum\_Forums**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ForumID	int	True	True	0	0	0		
False	GroupID	int	True	False	0	0	0	(0)	
False	IsActive	bit	True	False	0	1	0	(1)	
False	ParentID	int	True	False	0	0	0	(0)	
False	Name	nvarchar	True	False	255	0	0		
False	Description	nvarchar	False	False	204	0	0		
False	CreatedDate	datetime	False	False	0	23	3	(getda te())	
False	CreatedByUser	int	False	False	0	0	0		
False	UpdatedByUser	int	False	False	0	0	0		
False	UpdatedDate	datetime	False	False	0	23	3		
False	IsModerated	bit	False	False	0	1	0	(0)	
False	DaysToView	int	False	False	0	0	0	(0)	
False	SortOrder	int	False	False	0	0	0	(0)	
False	TotalPosts	int	False	False	0	0	0	(0)	
False	TotalThreads	int	False	False	0	0	0	(0)	
False	EnablePostStatisti cs	bit	False	False	0	1	0	(0)	
False	EnableAutoDelete	bit	False	False	0	1	0	(0)	
False	AutoDeleteThresh old	int	False	False	0	0	0	(90)	
False	MostRecentPostID	int	False	False	0	0	0	(0)	
False	MostRecentThrea dID	int	False	False	0	0	0	(0)	
False	MostRecentPostAuth orID	int	False	False	0	0	0	(0)	
False	MostRecentPostDate	datetime	False	False	0	23	3	(getda te())	
False	PostsToModerate	int	False	False	0	0	0	(0)	
False	ForumType	int	False	False	0	0	0	(0)	

False	IsIntegrated	bit	False	False	0	1	0	(0)		
False	IntegratedModuleID	int	False	False	0	0	0	(0)		
False	IntegratedObjects	nvarchar	False	False	255	0	0			
False	IsPrivate	bit	False	False	0	1	0	(0)		
False	AuthorizedRoles	nvarchar	False	False	255	0	0			
False	AuthorizedEditRoles	nvarchar	False	False	255	0	0			

### ***Constraints***

Name	Type	Columns	Initial Code	Notes
PK_Forum_Forums	Public	ForumID		
IX_Forum_Forums	Public	ForumID		

## **Forum\_Groups**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### ***Columns***

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	GroupID	int	True	True	0	0	0		
False	Name	nvarchar	True	False	255	0	0		
False	PortalID	int	False	False	0	0	0		
False	ModuleID	int	True	False	0	0	0		
False	SortOrder	int	True	False	0	0	0	(0)	
False	CreatedDate	datetime	True	False	0	23	3	(getdate())	
False	CreatedByUser	int	True	False	0	0	0		
False	UpdatedByUser	int	False	False	0	0	0		
False	UpdatedDate	datetime	False	False	0	23	3		
False	GroupType	int	False	False	0	0	0	(0)	
False	Server	nvarchar	False	False	100	0	0		
False	Port	int	False	False	0	0	0	(119)	
False	LogonRequired	bit	False	False	0	1	0		
False	UserName	nvarchar	False	False	100	0	0		
False	Password	nvarchar	False	False	100	0	0		

### ***Constraints***

Name	Type	Columns	Initial Code	Notes
PK_Forum_Groups	Public	GroupID		
IX_Forum_Groups	Public	GroupID		
IX_Forum_Groups_ModuleID	Public	ModuleID		

## **Forum\_ModerationAction**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	ModerationAction	int	True	False	0	0	0		
False	Description	nvarchar	True	False	255	0	0		
False	TotalActions	int	True	False	0	0	0		

## Forum\_ModerationAudit

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	ModeratedOn	datetime	True	False	0	23	3		
False	PostID	int	True	False	0	0	0		
False	ModeratedBy	int	True	False	0	0	0		
False	ModerationAction	nvarchar	True	False	50	0	0		
False	Notes	nvarchar	False	False	102 4	0	0		

## Forum\_Moderators

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	UserID	int	True	True	0	0	0		
True	ForumID	int	True	True	0	0	0		
False	AssignedDate	datetime	True	False	0	23	3		
False	PostsModerated	int	True	False	0	0	0	(0)	

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_Forum_Moderators	Public	UserID ForumID		

## Forum\_Notification

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ForumID	int	True	True	0	0	0		

True	RoleID	int	True	True	0	0	0			
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### ***Constraints***

Name	Type	Columns	Initial Code	Notes
PK_Forum_Notification	Public	ForumID RoleID		

## **Forum\_PM**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### ***Columns***

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	PMID	int	True	True	0	0	0		
False	ParentPMID	int	True	False	0	0	0		
False	UserID	int	True	False	0	0	0		
False	RemoteAddr	nvarchar	False	False	100	0	0		
False	Subject	nvarchar	True	False	255	0	0		
False	Body	ntext	False	False	0	0	0		
False	CreatedDate	datetime	True	False	0	23	3		
False	PMThreadID	int	False	False	0	0	0		
False	PMLevel	int	False	False	0	0	0		
False	FlatSortOrder	int	False	False	0	0	0		
False	TreeSortOrder	int	False	False	0	0	0		

### ***Constraints***

Name	Type	Columns	Initial Code	Notes
PK_Forum_PM	Public	PMID		

## **Forum\_PMBlocked**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### ***Columns***

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	BlockerUserID	int	False	False	0	0	0		
False	BlockingUserID	int	False	False	0	0	0		
False	BlockedDate	datetime	True	False	0	23	3	(getdate())	
False	ReasonBlocked	nvarchar	False	False	200	0	0		

## **Forum\_PMThreads**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	PMThreadID	int	True	False	0	0	0		
False	PMThreadSubject	nvarchar	True	False	250	0	0		
False	PMStartDate	datetime	False	False	0	23	3		
False	PMStartUserID	int	True	False	0	0	0		
False	PMTouserID	int	True	False	0	0	0		
False	Views	int	False	False	0	0	0		
False	LastPostedPMID	int	False	False	0	0	0		
False	Replies	int	False	False	0	0	0		
False	PMStartUserDeleted	bit	True	False	0	1	0	(0)	
False	PMTouserDeleted	bit	True	False	0	1	0	(0)	
False	PortalID	int	True	False	0	0	0		

### **Forum\_Posts**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	PostID	int	True	True	0	0	0		
False	ParentPostID	int	True	False	0	0	0		
False	UserID	int	True	False	0	0	0		
False	RemoteAddr	nvarchar	False	False	100	0	0		
False	Notify	bit	False	False	0	1	0		
False	Subject	nvarchar	True	False	255	0	0		
False	Body	ntext	False	False	0	0	0		
False	CreatedByUser	int	False	False	0	0	0		
False	CreatedDate	datetime	False	False	0	23	3		
False	ThreadID	int	False	False	0	0	0		
False	PostLevel	int	False	False	0	0	0	(0)	
False	TreeSortOrder	int	False	False	0	0	0	(0)	
False	FlatSortOrder	int	False	False	0	0	0	(0)	
False	UpdatedDate	datetime	False	False	0	23	3		
False	UpdatedByUser	int	False	False	0	0	0		
False	IsApproved	bit	False	False	0	1	0	(1)	
False	IsLocked	bit	False	False	0	1	0	(0)	
False	IsClosed	bit	False	False	0	1	0	(0)	
False	MediaURL	nvarchar	False	False	255	0	0		
False	MediaNAV	nvarchar	False	False	255	0	0		
False	Attachments	nvarchar	False	False	255	0	0		
False	FileAttachmentUR L	nvarchar	False	False	50	0	0		
False	DateApproved	datetime	False	False	0	23	3		

### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_Forum_Posts	Public	PostID		

Name	Type	Columns	Initial Code	Notes
IX_Forum_Posts	Public	PostID		
Forum_PostsThreadID	Public	ThreadID		
Forum_PostsThreadIDFlatSortOrder	Public	ThreadID FlatSortOrder		
Forum_PostsTreeSortOrder	Public	ThreadID TreeSortOrder		

## Forum\_PrivateForums

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ForumID	int	True	True	0	0	0		
True	RoleID	int	True	True	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Forum_PrivateForums	Public	ForumID RoleID		

## Forum\_Statistics\_Site

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	CreatedDate	datetime	True	False	0	23	3		
False	TotalUsers	int	True	False	0	0	0		
False	TotalPosts	int	True	False	0	0	0		
False	TotalModerators	int	True	False	0	0	0		
False	TotalModeratedPosts	int	True	False	0	0	0		
False	TotalAnonymousUsers	int	True	False	0	0	0		
False	TotalTopics	int	True	False	0	0	0		
False	NewPostsInPast24Hours	int	True	False	0	0	0		
False	NewThreadsInPast24Hours	int	True	False	0	0	0		
False	NewUsersInPast24Hours	int	True	False	0	0	0		

False	MostViewsThreadID	int	True	False	0	0	0			
False	MostActiveThreadID	int	True	False	0	0	0			
False	MostActiveUserID	int	True	False	0	0	0			
False	MostReadThreadID	int	True	False	0	0	0			
False	NewestUserID	int	True	False	0	0	0			
False	ModuleID	int	True	False	0	0	0			

## Forum\_ThreadRating

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	UserID	int	True	True	0	0	0		
True	ThreadID	int	True	True	0	0	0		
False	Rate	int	False	False	0	0	0		
False	Comment	nvarchar	False	False	500	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Forum_ThreadRating	Public	UserID ThreadID		

## Forum\_Threads

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ThreadID	int	True	True	0	0	0		
False	ForumID	int	True	False	0	0	0	(0)	
False	Views	int	False	False	0	0	0	(0)	
False	LastPostedPostID	int	False	False	0	0	0	(0)	
False	Replies	int	False	False	0	0	0	(0)	
False	IsPinned	bit	False	False	0	1	0	(0)	
False	PinnedDate	datetime	False	False	0	23	3	(getdate())	
False	Image	nvarchar	False	False	255	0	0		
False	ObjectTypeCode	int	False	False	0	0	0		
False	ObjectID	char	False	False	10	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Forum_Threads	Public	ThreadID		

Name	Type	Columns	Initial Code	Notes
IX_Forum_Threads	Public	ThreadID		

## Forum\_ThreadsRead

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ForumID	int	True	True	0	0	0		
True	UserID	int	True	True	0	0	0		
False	ReadThreads	nvarchar	False	False	400 0	0	0		
False	LastPurgeDate	datetime	False	False	0	23	3		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Forum_ThreadsRead	Public	ForumID UserID		

## Forum\_TrackedForums

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ForumID	int	True	True	0	0	0		
True	UserID	int	True	True	0	0	0		
False	CreatedDate	datetime	False	False	0	23	3		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Forum_TrackedForum s	Public	ForumID UserID		

## Forum\_TrackedThreads

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ForumID	int	True	True	0	0	0		
True	ThreadID	int	True	True	0	0	0		

True	UserID	int	True	True	0	0	0			
False	CreatedDate	datetime	False	False	0	23	3			

#### ***Constraints***

Name	Type	Columns	Initial Code	Notes
PK_Forum_TrackedThreads	Public	ThreadID UserID ForumID		

### **Forum\_TrackedWhatsNew**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### ***Columns***

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ForumID	int	True	True	0	0	0		
True	UserID	int	True	True	0	0	0		
False	CreatedDate	datetime	False	False	0	23	3		

#### ***Constraints***

Name	Type	Columns	Initial Code	Notes
PK_Forum_TrackedWhatsNew	Public	ForumID UserID		

### **Forum\_UserForums**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### ***Columns***

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	UserID	int	True	True	0	0	0		
True	ForumID	int	True	True	0	0	0		
False	LastVisitDate	datetime	False	False	0	23	3		

#### ***Constraints***

Name	Type	Columns	Initial Code	Notes
PK_Forum_UserForums	Public	UserID ForumID		

### **Forum\_UserThreads**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### ***Columns***

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	UserID	int	True	True	0	0	0		
True	ThreadID	int	True	True	0	0	0		
False	LastVisitDate	datetime	False	False	0	23	3		

#### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_Forum_UserThreads	Public	UserID ThreadID		

## **Forum\_Users**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	UserID	int	True	True	0	0	0		
False	Alias	nvarchar	False	False	100	0	0		
False	Signature	nvarchar	False	False	102 4	0	0		
False	Occupation	nvarchar	False	False	255	0	0		
False	Interests	nvarchar	False	False	255	0	0		
False	MSN	nvarchar	False	False	128	0	0		
False	Yahoo	nvarchar	False	False	128	0	0		
False	AIM	nvarchar	False	False	128	0	0		
False	ICQ	nvarchar	False	False	128	0	0		
False	Skin	nvarchar	False	False	255	0	0		
False	UserAvatar	bit	False	False	0	1	0	(0)	
False	Avatar	nvarchar	False	False	255	0	0		
False	AdditionalAvatars	nvarchar	False	False	255	0	0		
False	PostCount	int	False	False	0	0	0	(0)	
False	LastActivity	datetime	False	False	0	23	3	(1 / 1 / 2001)	
False	FlatView	bit	False	False	0	1	0	(1)	
False	IsTrusted	bit	False	False	0	1	0	(0)	
False	EnableThreadTrac king	bit	False	False	0	1	0	(1)	
False	EnableDisplayUnreadThreadsOnly	bit	False	False	0	1	0	(1)	
False	EnableDisplayInMemberList	bit	False	False	0	1	0	(1)	
False	EnableOnlineStatus	bit	False	False	0	1	0	(1)	
False	ThreadsPerPage	int	False	False	0	0	0		
False	PostsPerPage	int	False	False	0	0	0		
False	WhatsNewScrollDirection	int	False	False	0	0	0		
False	WhatsNewNumberOfThread	int	False	False	0	0	0		

False	WhatsNewScrollIDelay	int	False	False	0	0	0			
False	WhatsNewScrollAMount	int	False	False	0	0	0			
False	WhatsNewTrackingType	int	False	False	0	0	0			
False	WhatsNewTrackingDuration	int	False	False	0	0	0			
False	WhatsNewTemplate	nvarchar	False	False	255	0	0			
False	DefaultForumID	int	False	False	0	0	0			
False	CollapseGroups	nvarchar	False	False	255	0	0			
False	ViewDescending	bit	False	False	0	1	0	(0)		
False	EnableModNotification	bit	True	False	0	1	0	(1)		
False	IsGlobalModerator	bit	True	False	0	1	0	(0)		
False	ModeratorReturn	bit	True	False	0	1	0	(0)		
False	EnablePM	bit	True	False	0	1	0	(1)		
False	EnablePMNotifications	bit	True	False	0	1	0	(1)		

### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_Forum_Users	Public	UserID		
Forum_UsersUserIDAlias	Public	UserID Alias		

### **Help\_Category**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	CategoryID	int	True	False	0	0	0		
False	Name	nvarchar	False	False	50	0	0		
False	Description	nvarchar	False	False	500	0	0		
False	Image	int	False	False	0	0	0		
False	KeyWords	nvarchar	False	False	255	0	0		
False	ModuleID	int	False	False	0	0	0		
False	Order	int	True	False	0	0	0		
False	Level	int	True	False	0	0	0		
False	Parent	int	False	False	0	0	0		
False	Visible	bit	False	False	0	1	0		
False	Deleted	bit	False	False	0	1	0		
False	LastUpdated	datetime	False	False	0	23	3		
False	CategoryGUID	uniqueidentifier	False	False	0	0	0		

## Help\_TutorialCategory

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	CategoryID	int	True	False	0	0	0		
True	ItemID	int	True	True	0	0	0		
False	ViewOrder	int	True	False	0	0	0	(99)	
False	TutorialID	int	False	False	0	0	0		
False	LastUpdated	datetime	False	False	0	23	3		
False	TutorialCategoryGUID	uniqueidentifier	False	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Help_TutorialCategory	Public	ItemID		

## Help\_Tutorials

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	ProductImage	nvarchar	False	False	150	0	0		
False	Featured	bit	True	False	0	1	0		
False	KeyWords	nvarchar	False	False	200	0	0		
False	DownloadName	nvarchar	False	False	200	0	0		
False	ShortDesc	nvarchar	False	False	500	0	0		
False	Archive	bit	True	False	0	1	0		
False	Description	ntext	False	False	0	0	0		
True	TutorialID	int	True	True	0	0	0		
False	Title	nvarchar	False	False	250	0	0		
False	LastUpdated	datetime	False	False	0	23	3		
False	TutorialGUID	uniqueidentifier	False	False	0	0	0		
False	ModuleID	int	False	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Help_Tutorials	Public	TutorialID		

## HostSettings

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	SettingName	nvarchar	True	True	50	0	0		
False	SettingValue	nvarchar	True	False	256	0	0		
False	SettingIsSecure	bit	True	False	0	1	0	(0)	

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_HostSettings	Public	SettingName		

**HtmlText***Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.*Notes:***Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ModuleID	int	True	True	0	0	0		
False	DesktopHTML	ntext	True	False	0	0	0		
False	DesktopSummary	ntext	False	False	0	0	0		
False	CreatedByUser	int	False	False	0	0	0		
False	CreatedDate	datetime	False	False	0	23	3		

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_HtmlText	Public	ModuleID		

**IFrame\_Parameters***Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.*Notes:***Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ParameterID	int	True	True	0	0	0		
False	ModuleID	int	True	False	0	0	0		
False	Name	varchar	True	False	50	0	0		
False	Type	varchar	True	False	50	0	0		
False	Argument	nvarchar	False	False	200	0	0		

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_IFrame_Parameters	Public	ParameterID		
IX_IFrame_Parameters	Public	ModuleID		

## Links

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ItemID	int	True	True	0	0	0		
False	ModuleID	int	True	False	0	0	0		
False	CreatedDate	datetime	False	False	0	23	3		
False	Title	nvarchar	False	False	100	0	0		
False	Url	nvarchar	False	False	250	0	0		
False	ViewOrder	int	False	False	0	0	0		
False	Description	nvarchar	False	False	200	0	0		
False	CreatedByUser	int	True	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Links_07E124C1	Public	ItemID		
IX_Links	Public	ModuleID		

## Lists

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	EntryID	int	True	False	0	0	0		
True	ListName	nvarchar	True	True	50	0	0		
True	Value	nvarchar	True	True	100	0	0		
True	Text	nvarchar	True	True	150	0	0		
True	ParentID	int	True	True	0	0	0	(0)	
False	Level	int	True	False	0	0	0	(0)	
False	SortOrder	int	True	False	0	0	0	(0)	
False	DefinitionID	int	True	False	0	0	0	(0)	
False	Description	nvarchar	False	False	500	0	0		
False	PortalID	int	True	False	0	0	0	((-1))	
False	SystemList	bit	True	False	0	1	0	(0)	

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Lists	Public	ListName Value Text ParentID		

## Media

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ModuleID	int	True	True	0	0	0		
False	Src	nvarchar	True	False	250	0	0		
False	alt	nvarchar	False	False	100	0	0		
False	width	int	False	False	0	0	0		
False	height	int	False	False	0	0	0		
False	NavigateUrl	nvarchar	False	False	250	0	0		
False	MediaAlignment	int	False	False	0	0	0	(0)	

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Media	Public	ModuleID		

## ModuleControls

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ModuleControlID	int	True	True	0	0	0		
False	ModuleDefID	int	False	True	0	0	0		
False	ControlKey	nvarchar	False	True	50	0	0		
False	ControlTitle	nvarchar	False	False	50	0	0		
False	ControlSrc	nvarchar	False	True	256	0	0		
False	IconFile	nvarchar	False	False	100	0	0		
False	ControlType	int	True	False	0	0	0		
False	ViewOrder	int	False	False	0	0	0		
False	HelpUrl	nvarchar	False	False	200	0	0		
False	SupportsPartialRe rendering	bit	True	False	0	1	0	(0)	

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_ModuleControls	Public	ModuleControlID		
IX_ModuleControls	Public	ModuleDefID ControlKey ControlSrc		

## ModuleDefinitions

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ModuleDefID	int	True	True	0	0	0		
False	FriendlyName	nvarchar	True	True	128	0	0		
False	DesktopModuleID	int	True	False	0	0	0		
False	DefaultCacheTime	int	True	False	0	0	0	(0)	

#### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_ModuleDefinitions	Public	ModuleDefID		
IX_ModuleDefinitions	Public	FriendlyName		
IX_ModuleDefinitions_1	Public	DesktopModuleID		

## **ModulePermission**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ModulePermission ID	int	True	True	0	0	0		
False	ModuleID	int	True	True	0	0	0		
False	PermissionID	int	True	True	0	0	0		
False	AllowAccess	bit	True	False	0	1	0		
False	RoleID	int	False	True	0	0	0		
False	UserID	int	False	True	0	0	0		

#### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_ModulePermission	Public	ModulePermission ID		
IX_ModulePermission	Public	ModuleID PermissionID RoleID UserID		
IX_ModulePermission_Mo dules	Public	ModuleID		
IX_ModulePermission_Per mission	Public	PermissionID		
IX_ModulePermission_Rol es	Public	RoleID		
IX_ModulePermission_Us	Public	UserID		

Name	Type	Columns	Initial Code	Notes
ers				

## ModuleSettings

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ModuleID	int	True	True	0	0	0		
True	SettingName	nvarchar	True	True	50	0	0		
False	SettingValue	nvarchar	True	False	200	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_ModuleSettings	Public	ModuleID SettingName		

## Modules

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ModuleID	int	True	True	0	0	0		
False	ModuleDefID	int	True	False	0	0	0		
False	ModuleTitle	nvarchar	False	False	256	0	0		
False	AllTabs	bit	True	False	0	1	0	(0)	
False	IsDeleted	bit	True	False	0	1	0	(0)	
False	InheritViewPermis sions	bit	False	False	0	1	0		
False	Header	ntext	False	False	0	0	0		
False	Footer	ntext	False	False	0	0	0		
False	StartDate	datetime	False	False	0	23	3		
False	EndDate	datetime	False	False	0	23	3		
False	PortalID	int	False	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Modules	Public	ModuleID		
IX_Modules	Public	ModuleDefID		

## Orizonti\_NukeFeeds\_FeedData

Database: SQL Server 2008, Stereotype: «table», Package: Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ID	int	True	True	0	0	0		
False	FeedID	int	True	False	0	0	0		
False	Title	nvarchar	False	False	250	0	0		
False	Description	ntext	False	False	0	0	0		
False	Link	varchar	False	False	250	0	0		
False	PublishDate	datetime	False	False	0	23	3		

#### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_Orizonti_NukeFeeds_FeedData	Public	ID		
IX_Orizonti_NukeFeeds_FeedData	Public	FeedID		

## **Orizonti\_NukeFeeds\_Feeds**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ID	int	True	True	0	0	0		
False	Name	nvarchar	False	False	250	0	0		
False	URL	nvarchar	True	False	250	0	0		
False	Account	nvarchar	False	False	100	0	0		
False	Password	nvarchar	False	False	100	0	0		
False	Frequency	int	True	False	0	0	0	(0)	
False	LastUpdate	datetime	False	False	0	23	3		
False	ModuleID	int	True	False	0	0	0		
False	SearchKeywords	nvarchar	False	False	250	0	0		
False	SearchIn	int	False	False	0	0	0		
False	StartPoint	int	True	False	0	0	0	(0)	
False	SearchKeywordsExclude	nvarchar	False	False	250	0	0		
False	ItemLimit	int	True	False	0	0	0	(0)	
False	FeedTimeOut	int	True	False	0	0	0	(0)	
False	IsActive	bit	True	False	0	1	0	(1)	

#### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_Orizonti_NukeFeeds_Feeds	Public	ID		

## **PackageTypes**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### ***Columns***

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	PackageType	nvarchar	True	True	100	0	0		
False	Description	nvarchar	True	False	500	0	0		
False	SecurityAccessLevel	int	True	False	0	0	0		

#### ***Constraints***

Name	Type	Columns	Initial Code	Notes
PK_PackageTypes_1	Public	PackageType		

## **Packages**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### ***Columns***

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	PackageID	int	True	True	0	0	0		
False	Name	nvarchar	True	False	50	0	0		
False	FriendlyName	nvarchar	True	False	250	0	0		
False	Description	nvarchar	True	False	200	0	0		
False	PackageType	nvarchar	True	False	50	0	0		
False	Version	nvarchar	True	False	50	0	0		
False	License	ntext	True	False	0	0	0		
False	Manifest	ntext	True	False	0	0	0		

#### ***Constraints***

Name	Type	Columns	Initial Code	Notes
PK_Packages	Public	PackageID		
IX_Packages	Public	Name		

## **Permission**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### ***Columns***

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	PermissionID	int	True	True	0	0	0		
False	PermissionCode	varchar	True	True	50	0	0		
False	ModuleDefID	int	True	True	0	0	0		
False	PermissionKey	varchar	True	True	50	0	0		
False	PermissionName	varchar	True	False	50	0	0		

### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_Permission	Public	PermissionID		
IX_Permission	Public	PermissionCode ModuleDefID PermissionKey		

## **PortalAlias**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	PortalAliasID	int	True	True	0	0	0		
False	PortalID	int	True	False	0	0	0		
False	HTTPAlias	nvarchar	False	True	200	0	0		

### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_PortalAlias	Public	PortalAliasID		
IX_PortalAlias	Public	HTTPAlias		

## **PortalDesktopModules**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	PortalDesktopMod uleID	int	True	True	0	0	0		
False	PortalID	int	True	True	0	0	0		
False	DesktopModuleID	int	True	True	0	0	0		

### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_PortalDesktopModules	Public	PortalDesktopMod uleID		
IX_PortalDesktopModules	Public	PortalID DesktopModuleID		

## Portals

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	PortalID	int	True	True	0	0	0		
False	PortalName	nvarchar	True	False	128	0	0		
False	LogoFile	nvarchar	False	False	50	0	0		
False	FooterText	nvarchar	False	False	100	0	0		
False	ExpiryDate	datetime	False	False	0	23	3		
False	UserRegistration	int	True	False	0	0	0	(0)	
False	BannerAdvertising	int	True	False	0	0	0	(0)	
False	AdministratorId	int	False	False	0	0	0		
False	Currency	char	False	False	3	0	0		
False	HostFee	money	True	False	0	19	4	(0)	
False	HostSpace	int	True	False	0	0	0	(0)	
False	AdministratorRoleId	int	False	False	0	0	0		
False	RegisteredRoleId	int	False	False	0	0	0		
False	Description	nvarchar	False	False	500	0	0		
False	KeyWords	nvarchar	False	False	500	0	0		
False	BackgroundFile	nvarchar	False	False	50	0	0		
False	GUID	uniqueidentifier	True	False	0	0	0	(newid())	
False	PaymentProcessor	nvarchar	False	False	50	0	0		
False	ProcessorUserId	nvarchar	False	False	50	0	0		
False	ProcessorPassword	nvarchar	False	False	50	0	0		
False	SiteLogHistory	int	False	False	0	0	0		
False	HomeTabId	int	False	False	0	0	0		
False	LoginTabId	int	False	False	0	0	0		
False	UserTabId	int	False	False	0	0	0		
False	DefaultLanguage	nvarchar	True	False	10	0	0	('en-US')	
False	TimezoneOffset	int	True	False	0	0	0	((-8))	
False	AdminTabId	int	False	False	0	0	0		
False	HomeDirectory	varchar	True	False	100	0	0	('')	
False	SplashTabId	int	False	False	0	0	0		
False	PageQuota	int	True	False	0	0	0	(0)	
False	UserQuota	int	True	False	0	0	0	(0)	

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Portals	Public	PortalID		

## Profile

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ProfileId	int	True	True	0	0	0		
False	UserId	int	True	False	0	0	0		
False	PortalId	int	True	False	0	0	0		
False	ProfileData	ntext	True	False	0	0	0		
False	CreatedDate	datetime	True	False	0	23	3		

#### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_Profile	Public	ProfileId		
IX_Profile	Public	UserId PortalId		

## **ProfilePropertyDefinition**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	PropertyDefinitionID	int	True	True	0	0	0		
False	PortalID	int	False	False	0	0	0		
False	ModuleDefID	int	False	False	0	0	0		
False	Deleted	bit	True	False	0	1	0		
False	DataType	int	True	False	0	0	0		
False	DefaultValue	ntext	False	False	0	0	0		
False	PropertyCategory	nvarchar	True	False	50	0	0		
False	PropertyName	nvarchar	True	False	50	0	0		
False	Length	int	True	False	0	0	0	(0)	
False	Required	bit	True	False	0	1	0		
False	ValidationExpression	nvarchar	False	False	200	0	0		
False	ViewOrder	int	True	False	0	0	0		
False	Visible	bit	True	False	0	1	0		

#### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_ProfilePropertyDefinition	Public	PropertyDefinitionID		
IX_ProfilePropertyDefinition	Public	PortalID ModuleDefID PropertyName		

Name	Type	Columns	Initial Code	Notes
IX_ProfilePropertyDefinition_PropertyName	Public	PropertyName		

## RS2005Parameters

Database: SQL Server 2008, *Stereotype: «table»*, *Package: Model*

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ParmId	int	True	True	0	0	0		
False	PortalId	int	False	False	0	0	0		
False	ModuleId	int	False	False	0	0	0		
False	ParmName	varchar	False	False	200	0	0		
False	ParmValue	varchar	False	False	200	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_RS2005Parameters	Public	ParmId		

## RS2005Servers

Database: SQL Server 2008, *Stereotype: «table»*, *Package: Model*

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ServerId	int	True	True	0	0	0		
False	ServerName	varchar	False	False	100	0	0		
False	ServerURL	varchar	False	False	500	0	0		
False	ServerVersion	varchar	False	False	50	0	0		
False	UserName	varchar	False	False	100	0	0		
False	Password	varchar	False	False	100	0	0		
False	Domain	varchar	False	False	100	0	0		
False	PortalId	int	False	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
_PK_RS2005Servers	Public	ServerId		

## RoleGroups

Database: SQL Server 2008, *Stereotype: «table»*, *Package: Model*

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre	Scal	Init	Notes
----	------	------	----------	--------	-----	-----	------	------	-------

					<b>c</b>	<b>e</b>		
True	RoleGroupID	int	True	True	0	0	0	
False	PortalID	int	True	True	0	0	0	
False	RoleGroupName	nvarchar	True	True	50	0	0	
False	Description	nvarchar	False	False	100	0	0	

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_RoleGroups	Public	RoleGroupID		
IX_RoleGroupName	Public	PortalID RoleGroupName		

## Roles

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	RoleID	int	True	True	0	0	0		
False	PortalID	int	True	True	0	0	0		
False	RoleName	nvarchar	True	True	50	0	0		
False	Description	nvarchar	False	False	100	0	0		
False	ServiceFee	money	False	False	0	19	4	(0)	
False	BillingFrequency	char	False	False	1	0	0		
False	TrialPeriod	int	False	False	0	0	0		
False	TrialFrequency	char	False	False	1	0	0		
False	BillingPeriod	int	False	False	0	0	0		
False	TrialFee	money	False	False	0	19	4		
False	IsPublic	bit	True	False	0	1	0	(0)	
False	AutoAssignment	bit	True	False	0	1	0	(0)	
False	RoleGroupID	int	False	False	0	0	0		
False	RSVPCode	nvarchar	False	False	50	0	0		
False	IconFile	nvarchar	False	False	100	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Roles	Public	RoleID		
IX_RoleName	Public	PortalID RoleName		
IX_Roles	Public	BillingFrequency		

## Schedule

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ScheduleID	int	True	True	0	0	0		
False	TypeFullName	varchar	True	False	200	0	0		
False	TimeLapse	int	True	False	0	0	0		
False	TimeLapseMeasurement	varchar	True	False	2	0	0		
False	RetryTimeLapse	int	True	False	0	0	0		
False	RetryTimeLapseMeasurement	varchar	True	False	2	0	0		
False	RetainHistoryNum	int	True	False	0	0	0		
False	AttachToEvent	varchar	True	False	50	0	0		
False	CatchUpEnabled	bit	True	False	0	1	0		
False	Enabled	bit	True	False	0	1	0		
False	ObjectDependencies	varchar	True	False	300	0	0		
False	Servers	nvarchar	False	False	150	0	0		

#### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_Schedule	Public	ScheduleID		

## **ScheduleHistory**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ScheduleHistoryID	int	True	True	0	0	0		
False	ScheduleID	int	True	False	0	0	0		
False	StartDate	datetime	True	False	0	23	3		
False	EndDate	datetime	False	False	0	23	3		
False	Succeeded	bit	False	False	0	1	0		
False	LogNotes	ntext	False	False	0	0	0		
False	NextStart	datetime	False	False	0	23	3		
False	Server	nvarchar	False	False	150	0	0		

#### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_ScheduleHistory	Public	ScheduleHistoryID		
IX_ScheduleHistory_NextStart	Public	ScheduleID NextStart		
IX_ScheduleHistory_StartDate	Public	ScheduleID StartDate		

## ScheduleItemSettings

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ScheduleID	int	True	True	0	0	0		
True	SettingName	nvarchar	True	True	50	0	0		
False	SettingValue	nvarchar	True	False	200	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_ScheduleItemSettings	Public	ScheduleID SettingName		

## SearchCommonWords

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	CommonWordID	int	True	True	0	0	0		
False	CommonWord	nvarchar	True	False	255	0	0		
False	Locale	nvarchar	False	False	10	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_SearchCommonWords	Public	CommonWordID		

## SearchIndexer

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	SearchIndexerID	int	True	True	0	0	0		
False	SearchIndexerAssemblyQualifiedNa me	char	True	False	200	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_SearchIndexer	Public	SearchIndexerID		

Name	Type	Columns	Initial Code	Notes

## SearchItem

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	SearchItemID	int	True	True	0	0	0		
False	Title	nvarchar	True	False	200	0	0		
False	Description	nvarchar	True	False	200	0	0		
False	Author	int	False	False	0	0	0		
False	PubDate	datetime	True	False	0	23	3		
False	ModuleId	int	True	False	0	0	0		
False	SearchKey	nvarchar	True	False	100	0	0		
False	Guid	varchar	False	False	200	0	0		
False	HitCount	int	False	False	0	0	0		
False	ImageFileId	int	False	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_SearchItem	Public	SearchItemID		
IX_SearchItem	Public	ModuleId SearchKey		

## SearchItemWord

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	SearchItemWordID	int	True	True	0	0	0		
False	SearchItemID	int	True	True	0	0	0		
False	SearchWordsID	int	True	True	0	0	0		
False	Occurrences	int	True	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_SearchItemWords	Public	SearchItemWordID		
IX_SearchItemWord	Public	SearchItemID SearchWordsID		

## SearchItemWordPosition

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	SearchItemWordPositionID	int	True	True	0	0	0		
False	SearchItemWordID	int	True	False	0	0	0		
False	ContentPosition	int	True	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_SearchItemWordPosition	Public	SearchItemWordPositionID		

## SearchWord

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	SearchWordsID	int	True	True	0	0	0		
False	Word	nvarchar	True	True	100	0	0		
False	IsCommon	bit	False	False	0	1	0		
False	HitCount	int	True	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_SearchWord	Public	SearchWordsID		
IX_SearchWord	Public	Word		

## SiteLog

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	SiteLogId	int	True	True	0	0	0		
False	DateTime	smalldatetime	True	False	0	16	0		
False	PortalId	int	True	False	0	0	0		

False	UserId	int	False	False	0	0	0			
False	Referrer	nvarchar	False	False	255	0	0			
False	Url	nvarchar	False	False	255	0	0			
False	UserAgent	nvarchar	False	False	255	0	0			
False	UserHostAddress	nvarchar	False	False	255	0	0			
False	UserHostName	nvarchar	False	False	255	0	0			
False	TabId	int	False	False	0	0	0			
False	AffiliateId	int	False	False	0	0	0			

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_SiteLog	Public	SiteLogId		
IX_SiteLog	Public	PortalId		

## Skins

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	SkinID	int	True	True	0	0	0		
False	PortalID	int	False	False	0	0	0		
False	SkinRoot	nvarchar	True	False	50	0	0		
False	SkinSrc	nvarchar	True	False	200	0	0		
False	SkinType	int	True	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Skins	Public	SkinID		

## SurveyOptions

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	SurveyOptionID	int	True	True	0	0	0		
False	SurveyID	int	True	False	0	0	0		
False	ViewOrder	int	True	False	0	0	0		
False	OptionName	nvarchar	True	False	500	0	0		
False	Votes	int	True	False	0	0	0		
False	IsCorrect	bit	True	False	0	1	0	(0)	

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_SurveyOptions	Public	SurveyOptionID		

Name	Type	Columns	Initial Code	Notes

## SurveyResults

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	SurveyResultID	int	True	True	0	0	0		
False	SurveyOptionID	int	True	False	0	0	0		
False	UserID	int	True	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_SurveyResults	Public	SurveyResultID		

## Surveys

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	SurveyID	int	True	True	0	0	0		
False	ModuleID	int	True	False	0	0	0		
False	Question	nvarchar	True	False	500	0	0		
False	ViewOrder	int	False	False	0	0	0		
False	OptionType	char	True	False	1	0	0		
False	CreatedDate	datetime	True	False	0	23	3		
False	CreatedByUser	int	True	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Surveys	Public	SurveyID		

## SystemMessages

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	MessageID	int	True	True	0	0	0		
False	PortalID	int	False	True	0	0	0		
False	MessageName	nvarchar	True	True	50	0	0		

False	MessageValue	ntext	True	False	0	0	0			
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#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_SystemMessages	Public	MessageID		
IX_SystemMessages	Public	MessageName PortalID		

## TabModuleSettings

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	TabModuleID	int	True	True	0	0	0		
True	SettingName	nvarchar	True	True	50	0	0		
False	SettingValue	nvarchar	True	False	200	0	0		

#### Constraints

Name	Type	Columns	Initial Code	Notes
PK_TabModuleSettings	Public	TabModuleID SettingName		

## TabModules

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

#### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	TabModuleID	int	True	True	0	0	0		
False	TabID	int	True	True	0	0	0		
False	ModuleID	int	True	True	0	0	0		
False	PaneName	nvarchar	True	False	50	0	0		
False	ModuleOrder	int	True	False	0	0	0		
False	CacheTime	int	True	False	0	0	0		
False	Alignment	nvarchar	False	False	10	0	0		
False	Color	nvarchar	False	False	20	0	0		
False	Border	nvarchar	False	False	1	0	0		
False	IconFile	nvarchar	False	False	100	0	0		
False	Visibility	int	True	False	0	0	0		
False	ContainerSrc	nvarchar	False	False	200	0	0		
False	DisplayTitle	bit	True	False	0	1	0	(1)	
False	DisplayPrint	bit	True	False	0	1	0	(1)	
False	DisplaySyndicate	bit	True	False	0	1	0	(1)	

### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_TabModules	Public	TabModuleID		
IX_TabModules	Public	TabID ModuleID		

## **TabPermission**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	TabPermissionID	int	True	True	0	0	0		
False	TabID	int	True	True	0	0	0		
False	PermissionID	int	True	True	0	0	0		
False	AllowAccess	bit	True	False	0	1	0		
False	RoleID	int	False	True	0	0	0		
False	UserID	int	False	True	0	0	0		

### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_TabPermission	Public	TabPermissionID		
IX_TabPermission	Public	TabID PermissionID RoleID UserID		
IX_TabPermission_Permission	Public	PermissionID		
IX_TabPermission_Roles	Public	RoleID		
IX_TabPermission_Tabs	Public	TabID		
IX_TabPermission_Users	Public	UserID		

## **Tabs**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	TabID	int	True	True	0	0	0		
False	TabOrder	int	True	False	0	0	0	(0)	
False	PortalID	int	False	False	0	0	0		
False	TabName	nvarchar	True	False	50	0	0		

False	IsVisible	bit	True	False	0	1	0	(1)	
False	ParentId	int	False	False	0	0	0		
False	Level	int	True	False	0	0	0	(0)	
False	IconFile	nvarchar	False	False	100	0	0		
False	DisableLink	bit	True	False	0	1	0	(0)	
False	Title	nvarchar	False	False	200	0	0		
False	Description	nvarchar	False	False	500	0	0		
False	KeyWords	nvarchar	False	False	500	0	0		
False	IsDeleted	bit	True	False	0	1	0	(0)	
False	Url	nvarchar	False	False	255	0	0		
False	SkinSrc	nvarchar	False	False	200	0	0		
False	ContainerSrc	nvarchar	False	False	200	0	0		
False	TabPath	nvarchar	False	False	255	0	0		
False	StartDate	datetime	False	False	0	23	3		
False	EndDate	datetime	False	False	0	23	3		
False	RefreshInterval	int	False	False	0	0	0		
False	PageHeadText	nvarchar	False	False	500	0	0		
False	IsSecure	bit	True	False	0	1	0	(0)	

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Tabs	Public	TabID		
IX_Tabs_1	Public	PortalID		
IX_Tabs_2	Public	ParentId		

## UrlLog

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	UrlLogID	int	True	True	0	0	0		
False	UrlTrackingID	int	True	False	0	0	0		
False	ClickDate	datetime	True	False	0	23	3		
False	UserID	int	False	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_UrlLog	Public	UrlLogID		

## UrlTracking

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre	Scal	Init	Notes
----	------	------	----------	--------	-----	-----	------	------	-------

						<b>c</b>	<b>e</b>		
True	UrlTrackingID	int	True	True	0	0	0		
False	PortalID	int	False	True	0	0	0		
False	Url	nvarchar	True	True	255	0	0		
False	UrlType	char	True	False	1	0	0		
False	Clicks	int	True	False	0	0	0		
False	LastClick	datetime	False	False	0	23	3		
False	CreatedDate	datetime	True	False	0	23	3		
False	LogActivity	bit	True	False	0	1	0		
False	TrackClicks	bit	True	False	0	1	0	(1)	
False	ModuleId	int	False	True	0	0	0		
False	NewWindow	bit	True	False	0	1	0	(0)	

#### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_UrlTracking	Public	UrlTrackingID		
IX_UrlTracking	Public	PortalID Url ModuleId		

#### **Urls**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	UrlID	int	True	True	0	0	0		
False	PortalID	int	False	True	0	0	0		
False	Url	nvarchar	True	True	255	0	0		

#### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_Urls	Public	UrlID		
IX_Urls	Public	Url PortalID		

#### **UserAuthentication**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	UserAuthenticatio nID	int	True	True	0	0	0		
False	UserID	int	True	False	0	0	0		

False	AuthenticationType	nvarchar	True	False	100	0	0			
False	AuthenticationToken	nvarchar	True	False	100	0	0			

#### ***Constraints***

Name	Type	Columns	Initial Code	Notes
PK_UserAuthentication	Public	UserAuthenticationID		
IX_UserAuthentication	Public	UserID AuthenticationType		

## **UserDefinedData**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### ***Columns***

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	UserDefinedFieldId	int	True	True	0	0	0		
True	UserDefinedRowId	int	True	True	0	0	0		
False	FieldValue	ntext	True	False	0	0	0		

#### ***Constraints***

Name	Type	Columns	Initial Code	Notes
PK_UserDefinedData	Public	UserDefinedFieldId UserDefinedRowId		

## **UserDefinedFields**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### ***Columns***

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	UserDefinedFieldId	int	True	True	0	0	0		
False	ModuleId	int	True	False	0	0	0		
False	FieldTitle	nvarchar	False	False	50	0	0		
False	Visible	bit	True	False	0	1	0		
False	FieldOrder	int	True	False	0	0	0	(0)	
False	FieldType	varchar	True	False	20	0	0		
False	Required	bit	True	False	0	1	0	(0)	
False	Default	nvarchar	True	False	200	0	0	("")	

False	ExtendedSettings	nvarchar	True	False	200 0	0	0	("")	
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#### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_UserDefinedTable	Public	UserDefinedFieldId		
IX_UserDefinedFields	Public	ModuleId FieldOrder		

### **UserDefinedRows**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	UserDefinedRowId	int	True	True	0	0	0		
False	ModuleId	int	True	False	0	0	0		

#### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_UserDefinedRows	Public	UserDefinedRowId		
IX_UserDefinedRows	Public	ModuleId		

### **UserPortals**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

#### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	UserId	int	True	True	0	0	0		
True	PortalId	int	True	True	0	0	0		
False	UserPortalId	int	True	False	0	0	0		
False	CreatedDate	datetime	True	False	0	23	3	(getdate())	
False	Authorised	bit	True	False	0	1	0	(1)	

#### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_UserPortals	Public	UserId PortalId		
IX_UserPortals	Public	PortalId		
IX_UserPortals_1	Public	UserId		

Name	Type	Columns	Initial Code	Notes

## UserProfile

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ProfileID	int	True	True	0	0	0		
False	UserID	int	True	False	0	0	0		
False	PropertyDefinitionID	int	True	False	0	0	0		
False	PropertyValue	nvarchar	False	False	375 0	0	0		
False	PropertyText	ntext	False	False	0	0	0		
False	Visibility	int	True	False	0	0	0	(0)	
False	LastUpdatedDate	datetime	True	False	0	23	3		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_UserProfile	Public	ProfileID		
IX_UserProfile	Public	UserID		

## UserRoles

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	UserRoleID	int	True	True	0	0	0		
False	UserID	int	True	False	0	0	0		
False	RoleID	int	True	False	0	0	0		
False	ExpiryDate	datetime	False	False	0	23	3		
False	IsTrialUsed	bit	False	False	0	1	0		
False	EffectiveDate	datetime	False	False	0	23	3		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_UserRoles	Public	UserRoleID		
IX_UserRoles	Public	RoleID		
IX_UserRoles_1	Public	UserID		

## Users

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	UserID	int	True	True	0	0	0		
False	Username	nvarchar	True	True	100	0	0		
False	FirstName	nvarchar	True	False	50	0	0		
False	LastName	nvarchar	True	False	50	0	0		
False	IsSuperUser	bit	True	False	0	1	0	(0)	
False	AffiliateId	int	False	False	0	0	0		
False	Email	nvarchar	False	False	256	0	0		
False	DisplayName	nvarchar	True	False	128	0	0	("")	
False	UpdatePassword	bit	True	False	0	1	0	(0)	

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Users	Public	UserID		
IX_Users	Public	Username		

### Relationships

Columns	Association	Notes
(userID = UserID)	0..* EORS_Event__Debris.FK_EORS_Event__Debris_user ID 1 Users.PK_Users	

## UsersOnline

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	UserID	int	True	True	0	0	0		
True	PortalID	int	True	True	0	0	0		
False	TabID	int	True	False	0	0	0		
False	CreationDate	datetime	True	False	0	23	3	(getdate())	
False	LastActiveDate	datetime	True	False	0	23	3	(getdate())	

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_UsersOnline	Public	UserID PortalID		

## VendorClassification

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	VendorClassificati onId	int	True	True	0	0	0		
False	VendorId	int	True	True	0	0	0		
False	ClassificationId	int	True	True	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_VendorClassification	Public	VendorClassificati onId		
IX_VendorClassification	Public	VendorId ClassificationId		
IX_VendorClassification_1	Public	ClassificationId		

## Vendors

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	VendorId	int	True	True	0	0	0		
False	VendorName	nvarchar	True	True	50	0	0		
False	Street	nvarchar	False	False	50	0	0		
False	City	nvarchar	False	False	50	0	0		
False	Region	nvarchar	False	False	50	0	0		
False	Country	nvarchar	False	False	50	0	0		
False	PostalCode	nvarchar	False	False	50	0	0		
False	Telephone	nvarchar	False	False	50	0	0		
False	PortalId	int	False	True	0	0	0		
False	Fax	nvarchar	False	False	50	0	0		
False	Email	nvarchar	False	False	50	0	0		
False	Website	nvarchar	False	False	100	0	0		
False	ClickThroughs	int	True	False	0	0	0	(0)	
False	Views	int	True	False	0	0	0	(0)	
False	CreatedByUser	nvarchar	False	False	100	0	0		
False	CreatedDate	datetime	False	False	0	23	3		
False	LogoFile	nvarchar	False	False	100	0	0		
False	KeyWords	ntext	False	False	0	0	0		
False	Unit	nvarchar	False	False	50	0	0		
False	Authorized	bit	True	False	0	1	0	(1)	
False	FirstName	nvarchar	False	False	50	0	0		

False	LastName	nvarchar	False	False	50	0	0		
False	Cell	varchar	False	False	50	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Vendor	Public	VendorId		
IX_Vendors	Public	PortalId VendorName		

## Version

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	VersionId	int	True	True	0	0	0		
False	Major	int	True	True	0	0	0		
False	Minor	int	True	True	0	0	0		
False	Build	int	True	True	0	0	0		
False	CreatedDate	datetime	True	False	0	23	3		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_Version	Public	VersionId		
IX_Version	Public	Major Minor Build		

## aspnet\_Applications

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	ApplicationName	nvarchar	True	True	256	0	0		
False	LoweredApplicatio nName	nvarchar	True	True	256	0	0		
True	ApplicationId	uniqueid	True	True	0	0	0	(newid () )	
False	Description	nvarchar	False	False	256	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_aspnet_Applicati_3 3F4B129	Public	ApplicationId		

Name	Type	Columns	Initial Code	Notes
UQ__aspnet_Applicati_3 4E8D562	Public	LoweredApplicatio nName		
UQ__aspnet_Applicati_3 5DCF99B	Public	ApplicationName		
aspnet_Applications_Index	Public	LoweredApplicatio nName		

## aspnet\_Membership

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	ApplicationId	uniqueid entifier	True	False	0	0	0		
True	UserId	uniqueid entifier	True	True	0	0	0		
False	Password	nvarchar	True	False	128	0	0		
False	PasswordFormat	int	True	False	0	0	0	(0)	
False	PasswordSalt	nvarchar	True	False	128	0	0		
False	MobilePIN	nvarchar	False	False	16	0	0		
False	Email	nvarchar	False	False	256	0	0		
False	LoweredEmail	nvarchar	False	False	256	0	0		
False	PasswordQuestion	nvarchar	False	False	256	0	0		
False	PasswordAnswer	nvarchar	False	False	128	0	0		
False	IsApproved	bit	True	False	0	1	0		
False	IsLockedOut	bit	True	False	0	1	0		
False	CreateDate	datetime	True	False	0	23	3		
False	LastLoginDate	datetime	True	False	0	23	3		
False	LastPasswordChang edDate	datetime	True	False	0	23	3		
False	LastLockoutDate	datetime	True	False	0	23	3		
False	FailedPasswordAttemptCount	int	True	False	0	0	0		
False	FailedPasswordAttemptWindowStart	datetime	True	False	0	23	3		
False	FailedPasswordAnswerAttemptCount	int	True	False	0	0	0		
False	FailedPasswordAnswerAttemptWindowStart	datetime	True	False	0	23	3		
False	Comment	ntext	False	False	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK__aspnet_Membershi_48EFCE0F	Public	UserId		
aspnet_Membership_inde	Public	ApplicationId		

Name	Type	Columns	Initial Code	Notes
x		LoweredEmail		

## aspnet\_Profile

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	UserId	uniqueid entifier	True	True	0	0	0		
False	PropertyNames	ntext	True	False	0	0	0		
False	PropertyValuesStri ng	ntext	True	False	0	0	0		
False	PropertyValuesBin ary	image	True	False	0	0	0		
False	LastUpdatedDate	datetime	True	False	0	23	3		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_aspnet_Profile_5DE	Public	UserId		

## aspnet\_Roles

Database: SQL Server 2008, Stereotype: «table», Package: Model

Detail: Created on 2/18/2015. Last modified on 2/18/2015.

Notes:

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	ApplicationId	uniqueid entifier	True	False	0	0	0		
True	RoleId	uniqueid entifier	True	True	0	0	0	(newid ())	
False	RoleName	nvarchar	True	False	256	0	0		
False	LoweredRoleNam e	nvarchar	True	False	256	0	0		
False	Description	nvarchar	False	False	256	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_aspnet_Roles_6774	Public	RoleId		
552F				
aspnet_Roles_index1	Public	ApplicationId LoweredRoleNam e		

## aspnet\_SchemaVersions

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
True	Feature	nvarchar	True	True	128	0	0		
True	CompatibleSchemaVersion	nvarchar	True	True	128	0	0		
False	IsCurrentVersion	bit	True	False	0	1	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK__aspnet_SchemaVer__3E723F9C	Public	Feature CompatibleSchemaVersion		

## aspnet\_Users

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Prec	Scale	Init	Notes
False	ApplicationId	uniqueidentifier	True	False	0	0	0		
True	UserId	uniqueidentifier	True	True	0	0	0	(newid())	
False	UserName	nvarchar	True	False	256	0	0		
False	LoweredUserName	nvarchar	True	False	256	0	0		
False	MobileAlias	nvarchar	False	False	16	0	0	(null)	
False	IsAnonymous	bit	True	False	0	1	0	(0)	
False	LastActivityDate	datetime	True	False	0	23	3		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK__aspnet_Users__38B96646	Public	UserId		
aspnet_Users_Index	Public	ApplicationId LoweredUserName		
aspnet_Users_Index2	Public	ApplicationId LastActivityDate		

## aspnet\_UsersInRoles

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	UserId	uniqueid entifier	True	True	0	0	0		
True	RoleId	uniqueid entifier	True	True	0	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK__aspnet_UsersInRo__6B44E613	Public	UserId RoleId		
aspnet_UsersInRoles_index	Public	RoleId		

## grmRepositoryAttributeValues

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ItemID	int	True	True	0	0	0		
False	AttributeID	int	False	False	0	0	0		
False	ValueName	nvarchar	False	False	50	0	0		

### Constraints

Name	Type	Columns	Initial Code	Notes
PK_grmRepositoryAttribut eValues	Public	ItemID		
IX_grmRepositoryAttribute Values	Public	AttributeID		

## grmRepositoryAttributes

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### Columns

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ItemID	int	True	True	0	0	0		
False	ModuleID	int	True	False	0	0	0		
False	AttributeName	nvarchar	False	False	50	0	0		

### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_grmRepositoryAttributes	Public	ItemID		
IX_grmRepositoryAttributes	Public	ModuleID		

## **grmRepositoryCategories**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ItemId	int	True	True	0	0	0		
False	ModuleId	int	False	False	0	0	0		
False	Category	nvarchar	True	False	100	0	0		
False	ViewOrder	int	False	False	0	0	0		
False	Parent	int	False	False	0	0	0		

### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_grmRepositoryCategories	Public	ItemId		
IX_grmRepositoryCategories	Public	ModuleId		

## **grmRepositoryComments**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

### **Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ItemId	int	True	True	0	0	0		
False	ObjectID	int	True	False	0	0	0		
False	CreatedByUser	nvarchar	False	False	100	0	0		
False	CreatedDate	datetime	False	False	0	23	3		
False	Comment	ntext	False	False	0	0	0		

### **Constraints**

Name	Type	Columns	Initial Code	Notes
PK_grmRepositoryComments	Public	ItemId		
IX_grmRepositoryComments	Public	ObjectID		

## **grmRepositoryObjectCategories**

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
False	ItemID	int	True	False	0	0	0		
False	ObjectID	int	False	False	0	0	0		
False	CategoryID	int	False	False	0	0	0		

## grmRepositoryObjectValues

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ItemID	int	True	True	0	0	0		
False	ObjectID	int	False	False	0	0	0		
False	ValueID	int	False	False	0	0	0		

**Constraints**

Name	Type	Columns	Initial Code	Notes
PK_grmRepositoryObjectV alues	Public	ItemID		
IX_grmRepositoryObjectV alues	Public	ObjectID		

## grmRepositoryObjects

*Database:* SQL Server 2008, *Stereotype:* «table», *Package:* Model

*Detail:* Created on 2/18/2015. Last modified on 2/18/2015.

*Notes:*

**Columns**

PK	Name	Type	Not Null	Unique	Len	Pre c	Scal e	Init	Notes
True	ItemID	int	True	True	0	0	0		
False	ModuleID	int	False	False	0	0	0		
False	CreatedByUser	nvarchar	False	False	150	0	0		
False	CreatedDate	datetime	False	False	0	23	3		
False	UpdatedByUser	nvarchar	False	False	150	0	0		
False	UpdatedDate	datetime	False	False	0	23	3		
False	Name	nvarchar	False	False	150	0	0		
False	Author	nvarchar	False	False	150	0	0		
False	AuthorEmail	nvarchar	False	False	150	0	0		
False	FileSize	nvarchar	False	False	12	0	0		
False	Downloads	int	False	False	0	0	0		
False	PreviewImage	nvarchar	False	False	150	0	0		
False	Image	nvarchar	False	False	150	0	0		
False	FileName	nvarchar	False	False	150	0	0		
False	Clicks	int	False	False	0	0	0		
False	RatingVotes	bigint	False	False	0	19	0		
False	RatingTotal	bigint	False	False	0	19	0		

False	RatingAverage	float	False	False	0	53	0		
False	Approved	int	False	False	0	0	0		
False	ShowEMail	int	False	False	0	0	0		
False	Summary	ntext	False	False	0	0	0		
False	Description	ntext	False	False	0	0	0		

#### ***Constraints***

Name	Type	Columns	Initial Code	Notes
PK_grmRepositoryObjects	Public	ItemID		
IX_grmRepositoryObjects	Public	ModuleID		

#### **3.1.1.2.1 Database Size Estimate - provides size estimate of current design**

There are no changes to the size estimate for R7

#### **3.1.1.2.2 Database Failover Strategy**

There are no changes to the database failover strategy for R7

#### **3.1.1.2.3 Reports**

There are no new reports in this release

## **3.2 Non-Database Management System Files**

The following describes any updates to application data files (used for input or output), that are non-DBMS

### **3.2.1 EORS**

The following describes the use of flat files in EORS WO 11 Release 8.

#### **3.2.1.1 Service Error Logs**

EORS uses DotNetNuke's Event Viewer that allows admins to observe errors.

## 4.1 EORS Situational Awareness GUI

### 4.1.1 Event Selection

- The Event Selection page will consist of a single drop down lists that contains all open events.

#### 4.1.1.1 EORS SARS Event Selection



**Figure 4-1 EORS SARS Event Selection**

#### **4.1.2 Situational Awareness (SARS) GUI**

The Situational Awareness GUI consists of 13 pages:

- EOC Statewide Summary
- EOC Summary Data
- EOC Generate Report
- CHART
- PIO
- District 1
- District 2
- District 3
- District 4
- District 5
- District 6
- District 7
- MDTA
- Help

##### **4.1.2.1 SARS EOC Statewide Summary Page**

The screenshot shows the 'SARS' application interface. At the top, there's a dark header bar with the word 'SARS'. Below it, a white main area starts with the text 'Situational Awareness Reporting Event ID: 161231W020'. Underneath this, a navigation bar contains five items: 'EOC ▾' (which is highlighted in grey), 'CHART', 'PIO', 'Districts/MDTA ▾', and 'Help'. The main content area begins with a section titled 'Statewide Summary' in bold. Below it, a note says 'Remember to review and update Statewide Summary Text' followed by a large, empty text input field. Next is a section titled 'Reported by Other Agencies' in bold, with the note 'Provide update for State Agencies, Local Jurisdictions and Neighboring States' and another large, empty text input field. At the bottom of the form is a blue 'Save' button.

**Figure 4-2 EORS SARS EOC Statewide Summary**

#### 4.1.2.2 SARS EOC Statewide Summary Not Editable

The screenshot shows a web-based application titled "SARS". At the top, there's a dark header bar with the word "SARS" in white. Below it, a light-colored main area has the title "Situational Awareness Reporting Event ID: 161231W020". A navigation bar at the top of this area includes links for "EOC ▾", "CHART", "PIO", "Districts/MDTA ▾", and "Help". The main content starts with a section titled "Statewide Summary" which contains a placeholder text area with the instruction "Remember to review and update Statewide Summary Text". Below this is another section titled "Reported by Other Agencies" with a placeholder text area for "Provide update for State Agencies, Local Jurisdictions and Neighboring States".

Figure 4-3 EORS SARS EOC Statewide Summary Not Editable

#### 4.1.2.3 SARS EOC Summary Data Page

This screenshot shows the "SARS" application again. The top header and navigation bar are identical to Figure 4-3. The main content area features a section titled "Snow Emergency Plans in Effect". Below this is a table with four columns: "County", "Exceptions", "Date Declared", and "Date Lifted". The table lists ten Maryland counties, all of which have their "Date Declared" listed as "03/03/2017 09:00". The "Exceptions" column for Baltimore contains the text "Some exceptions apply". At the bottom of the table, there are two small buttons labeled "1" and "2".

County	Exceptions	Date Declared	Date Lifted
Allegany		03/03/2017 09:00	
Anne Arundel		03/03/2017 09:00	
Baltimore	Some exceptions apply	03/03/2017 09:00	
Calvert		03/03/2017 09:00	
Caroline		03/03/2017 09:00	
Carroll		03/03/2017 09:00	
Cecil		03/03/2017 09:00	
Charles		03/03/2017 09:00	
Dorchester		03/03/2017 09:00	
Frederick		03/03/2017 09:00	

Figure 4-4 EORS SARS EOC Summary Data Snow Emergencies Screen Capture

Current SHA & MDTA Deployment				
	State Personnel	State Equipment	Hired Equipment	Total Equipment
SHA	28	19	17	36
MDTA	0	0	0	0
<b>Total</b>	<b>28</b>	<b>19</b>	<b>17</b>	<b>36</b>

**Figure 4-5 EORS SARS EOC Summary Data Deployment Screen Capture**

Major Incidents				
Montgomery County [US 50 BAY BRIDGE [Weather Closure, High Water]] 2/3 Westbound-2 right Traffic Lanes closed Created: 04/12/17 16:18 by CHART Support				
PAcounty [PAROUTE AT PAINTROUTE [Collision, Property Damage]] 1 car involved, 1 single unit truck overturned Created: 02/17/17 14:48 by				
Howard County [I-95 SOUTH AT EXIT 43A MD 100 (SB) [Utility Problem][Gas Leak]] 5 cars involved, 2 cars (with trailer) involved, 3 suvs (with trailer) (2 involved, 1 overturned) Created: 01/11/17 19:37 by CHART Support				
Prince George's County [US 50 EAST/WEST AT MP 0 (WASH. DC / MD STATE LINE) [Weather Closure, Debris] [Tree Down]] 1 car involved, 1 suv overturned, 1 pedestrian involved Created: 12/21/16 11:42 by CHART Support				
Howard County [I-95 SOUTH AT EXIT 41A-B MD 175 WATERLOO RD (SB) [Other]] 1/4 Southbound-left Traffic Lane closed 2/4 Northbound-left Shoulder closed right Traffic Lane closed center left Traffic Lane closed Created: 01/11/17 15:14 by CHART Support				

**Figure 4-6 EORS SARS EOC Summary Data Major Incidents Screen Capture**

Weather Related Road Closures				
Please verify the Weather Related Road Closure information below, all closures are to be reported to the SOC at 1-800-543-2515. Please notify SOC with all closures and re-openings. The information below is automatically populated by the CHART system. EOC users may edit this information for inclusion in the Situational Awareness Report but edited data will not be saved.				
District 5 Anne Arundel [I-195 SOUTH/NORTH AT AVIATION BLVD]				
Anne Arundel [I-97 SOUTH AT DORSEY RD]				
Anne Arundel [I-97 SOUTH/NORTH AT BALTO ANNAPOLIS BLVD]				
Anne Arundel [I-97 SOUTH/NORTH AT BENFIELD BLVD]				

**Figure 4-7 EORS SARS EOC Summary Data Road Closures Screen Capture**

#### 4.1.2.4 SARS Generate Report Accessible



Figure 4-8 EORS SARS Generate Report Accessible Screen Capture

#### 4.1.2.5 SARS Generate Report Noy Accessible

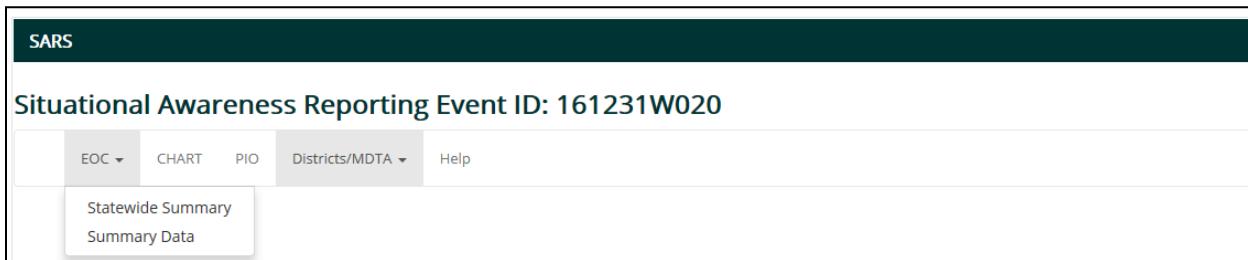


Figure 4-9 EORS SARS EOC Generate Report Not Accessible Screen Capture

#### 4.1.2.6 SARS EOC Generate Report Page

The screenshot shows a "Customize Report" section with a title "Report Sections Included (Uncheck to Exclude from Report)". It lists various categories with checkboxes, many of which have additional nested checkboxes for specific items. The categories include: Snow Emergencies, PIO, Major Incidents, Lower Eastern Shore (District 1), Road Closures, Upper Eastern Shore (District 2), Road Closures, National Capitol Region (District 3), Road Closures, Baltimore Metropolitan Region (District 4), Road Closures, Anne Arundel County & Southern Maryland (District 5), Road Closures, Western Maryland (District 6), Road Closures, North Central Maryland (District 7), Road Closures, MDTA, and Road Closures. At the bottom is a "Generate Report" button.

Figure 4-10 EOC SARS Generate Report Winter Event Parameters Page Screen Capture

### Customize Report

Report Sections Included (Uncheck to Exclude from Report)

- PIO
- Major Incidents
- Lower Eastern Shore (District 1)
  - ↵ Road Closures
- Upper Eastern Shore (District 2)
  - ↵ Road Closures
- National Capitol Region (District 3)
  - ↵ Road Closures
- Baltimore Metropolitan Region (District 4)
  - ↵ Road Closures
- Anne Arundel County & Southern Maryland (District 5)
  - ↵ Road Closures
- Western Maryland (District 6)
  - ↵ Road Closures
- North Central Maryland (District 7)
  - ↵ Road Closures
- MDTA
- ↵ Road Closures

**Generate Report**

**Figure 4-11 EORS SARS Generate Report Non-Winter Events Parameters Page Screen Capture**

SARS

Situational Awareness Reporting Event ID: 170419N001 - Non-Winter Event

EOC ▾ CHART PIO Districts/MDTA Help

**Report Preview**

Maryland Department of Transportation  
State Highway Administration  
Situational Awareness Report  
**Event ID 170419N001 - Non-Winter Event**  
4/24/2017 1:30 PM

**Major Incidents**

[Montgomery County [US 60 BAY BRIDGE [Weather Closure, High Water]]  
2/3 Westbound-2 right Traffic Lanes closed  
Created: 04/12/17 16:18 by CHART Support]  
[PACounty[PARROUTE AT PAINTROUTE [Collision, Property Damage]]  
1 car involved, 1 single unit truck overturned  
Created: 02/17/17 14:48 by]  
[Howard County [I-95 SOUTH AT EXIT 43A MD 100 (SB) [Utility Problem][Gas Leak]]  
5 cars involved, 2 cars (with trailer) involved, 3 suvs (with trailer) (2 involved, 1 overturned)  
Created: 01/11/17 19:37 by CHART Support]

**Email Options**

Email Groups Email Subject: Latest SARS Report Attached  
 Test group 1  
 Test group 2 Email Message: Type your message here (optional)

Save & Email Save Only Cancel

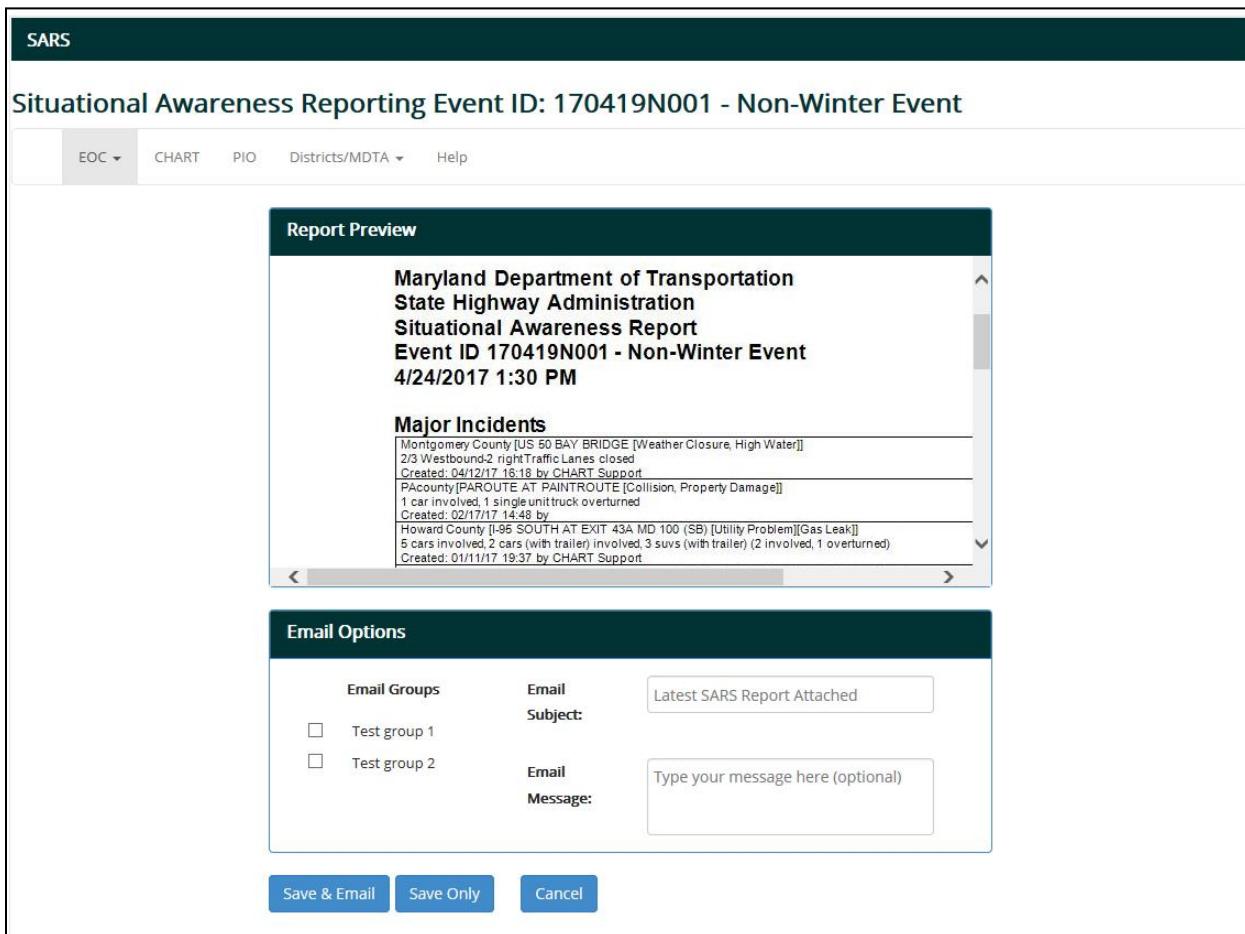


Figure 4-12 EORS SARS Report Preview Screen Capture

EOC ▾ CHART PIO Districts/MDTA Help

**Save Successful!**  
Email to Test group 1 successfully sent  
**To Download Pdf Click Here**



Figure 4-13 EORS SARS Success Page Screen Capture

#### 4.1.2.7 SARS CHART Page

SARS

Situational Awareness Reporting Event ID: 170419N001 - Non-Winter Event

EOC ▾ CHART PIO Districts/MDTA ▾ Help

CHART

SOC

Light/Heavy Wrecker Deployments

Route Patrols

TOC 3

Route Patrols

TOC 4

Route Patrols

TOC 7

Route Patrols

Save

Figure 4-14 EORS SARS CHART Page Screen Capture

#### 4.1.2.8 SRAS CHART Page Not Editable

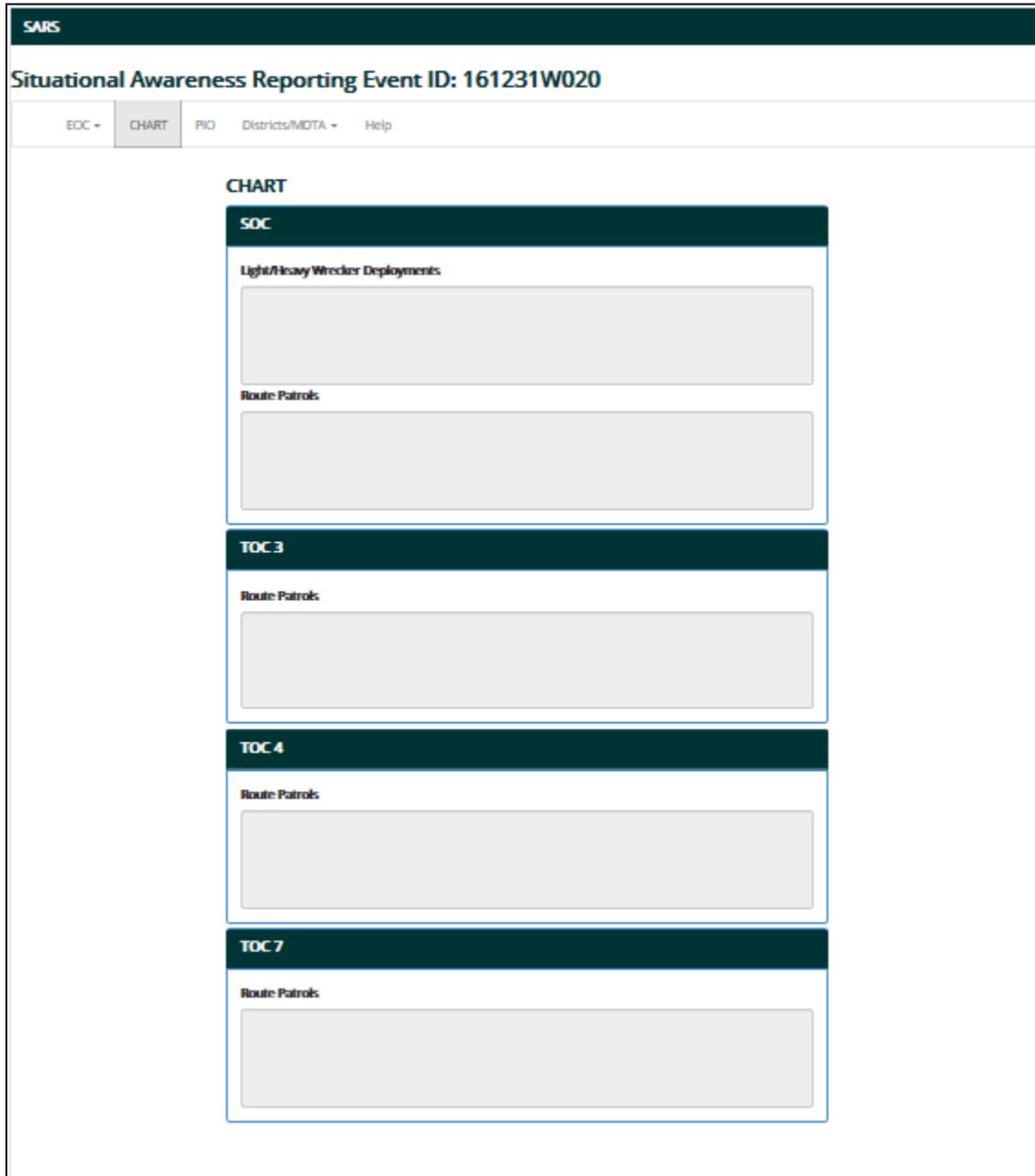


Figure 4-15 EOES SARS Chart Page Not Editable Screen Capture

#### 4.1.2.9 SARS PIO Page

The screenshot shows the SARS (Situational Awareness Reporting) system interface. At the top, a dark header bar displays the text "SARS". Below it, a white content area has the heading "Situational Awareness Reporting Event ID: 170419N001 - Non-Winter Event". A navigation menu at the top left includes links for "EOC", "CHART", "PIO" (which is highlighted with a blue border), "Districts/MDTA", and "Help". The main content area is titled "SHA Office of Communications" and contains a "Summary" section. This summary section is represented by a large, empty rectangular box with a thin gray border. At the bottom of this section is a blue "Save" button.

Figure 4-16 EORS SARS PIO Page Screen Capture

#### 4.1.2.10 SARS PIO Page Not Editable

This screenshot shows the same SARS interface as Figure 4-16, but with a key difference: the "Summary" section is now grayed out and cannot be edited. The rest of the page, including the header, event ID, navigation menu, and "SHA Office of Communications" title, remains identical to the previous figure.

Figure 4-17 EORS SARS PIO Page Not Editable Screen Capture

#### 4.1.2.11 SARS District/MDTA Page

SARS

Situational Awareness Reporting Event ID: 161231W020

EOC ▾ CHART PIO Districts/MDTA ▾ Help

**District 1**

District SARS will only include the information contained in the District Summary, District Notes and District Weather Related Lane Closures sections of this page.

District: 1 2 3 4 5 6 7 MDTA

Last Updated: 04/27/2017 09:40 By: host

**District Summary**

District Summary data is generated from Shop reports and is only editable from the shop report page.

No shop report available for this event in this district

**District Notes**

District Notes should include relevant and important information that is not currently reported in the Summary or Road Closure boxes.

bob

**Comments/Requested Information**

Comments and Requested Information are generated from Shop Reports. They are for information purposes and will not be included in the SAR unless they are copied into the District Notes text box.

No Comments available for this event

**District Weather Related Lane Closures**

Verify the District Weather Closures are correct. If there are any updates to closures, please contact the SOC at 1-800-543-2515. The information on this page will be used to generate the District SAR report.

Save

Figure 4-18 EORS SARS District/MDTA Page Screen Capture

#### 4.1.2.12 SARS District/MDTA Page Not Editable Screen Capture

The screenshot shows a web-based application interface for the Situational Awareness Reporting System (SARS). The top navigation bar is dark green with the text "SARS" in white. Below it, the main title "Situational Awareness Reporting Event ID: 161231W020" is displayed. A horizontal menu bar contains links: EOC ▾, CHART, PIO, Districts/MDTA ▾ (which is highlighted in grey), and Help. The main content area is titled "District 4". It includes a note stating that District SARS will only include information from the District Summary, District Notes, and District Weather Related Lane Closures sections. Below this, a link "District: 1 2 3 4 5 6 7 MDTA" is shown. The interface is divided into several sections with dark green headers:

- District Summary**: Notes that summary data is generated from Shop reports and is only editable from the shop report page. It also states there are no shop reports available for this event.
- District Notes**: Notes that District Notes should include relevant and important information not currently reported in the Summary or Road Closure boxes. This section is currently empty.
- Comments/Requested Information**: Notes that comments and requested information are generated from Shop Reports for information purposes only. It also states there are no comments available for this event.
- District Weather Related Lane Closures**: Notes to verify weather closures are correct and provides a contact number for updates. This section is currently empty.

Figure 4-19 EORS SARS District/MDTA Page Not Editable Screen Capture

#### 4.1.2.13 SARS Help Page

The screenshot shows the EORS SARS Help Page with the following details:

**Situational Awareness Reporting Event ID: 170419N001 - Non-Winter Event**

Navigation menu: EOC ▾ CHART PIO Districts/MDTA ▾ Help

**State Highway Administration Emergency Operations Center**

**Situational Awareness Reporting Schedule (Monday - Friday Events)**

SAR#	District Time	Statewide Time
1	4:30 AM	5:00 AM
2	5:30 AM	6:00 AM
3	6:30 AM	7:00 AM
4	7:30 AM	8:00 AM
5	8:30 AM	9:00 AM
6	9:30 AM	10:00 AM
7	11:30 AM	12:00 PM
8	1:30 PM	2:00 PM
9	2:30 PM	3:00 PM
10	3:30 PM	4:00 PM
11	4:30 PM	5:00 PM
12	5:30 PM	6:00 PM
13	6:30 PM	7:00 PM
14	8:30 PM	9:00 PM
15	10:30 PM	11:00 PM

**Situational Awareness Reporting Schedule (Weekend Events)**

SAR#	District Time	Statewide Time
1	5:30 AM	6:00 AM
2	7:30 AM	8:00 AM
3	9:30 AM	10:00 AM
4	11:30 AM	12:00 PM
5	1:30 PM	2:00 PM
6	3:30 PM	4:00 PM
7	5:30 PM	6:00 PM
8	7:30 PM	8:00 PM
9	9:30 PM	10:00 PM

Figure 4-20 EORS SARS Help Page Screen Capture

## 4.2 SARS PDF Report

### 4.2.1 SARS PDF Report Winter Event

Maryland Department of Transportation  
State Highway Administration  
Situational Awareness Report  
Event ID 161231W020  
4/24/2017 2:49 PM

**Statewide Summary**  
Some text here

**Snow Emergency Plans in Effect**

County	Exceptions	Date Declared	Date Lifted
Allegany		03/03/2017 09:00	
Anne Arundel		03/03/2017 09:00	
Baltimore	Some exceptions apply	03/03/2017 09:00	
Calvert		03/03/2017 09:00	
Caroline		03/03/2017 09:00	
Carroll		03/03/2017 09:00	
Cecil		03/03/2017 09:00	
Charles		03/03/2017 09:00	
Dorchester		03/03/2017 09:00	
Frederick		03/03/2017 09:00	
Garrett		03/03/2017 09:00	
Harford	Some exceptions apply	03/03/2017 09:00	

**Major Incidents**

Montgomery County [US 50 BAY BRIDGE [Weather Closure, High Water]] 2/3 Westbound-2 right Traffic Lanes closed Created: 04/12/17 16:18 by CHART Support
PAcounty [PARROUTE AT PAINTROUTE [Collision, Property Damage]] 1 car involved, 1 single unit truck overturned Created: 02/17/17 14:48 by
Howard County [I-95 SOUTH AT EXIT 43A MD 100 (SB) [Utility Problem][Gas Leak]] 5 cars involved, 2 cars (with trailer) involved, 3 suvs (with trailer) (2 involved, 1 overturned) Created: 01/11/17 19:37 by CHART Support
Prince George's County [US 50 EAST/WEST AT MP 0 (WASH. DC / MD STATE LINE) [Weather Closure, Debris][Tree Down]] 1 car involved, 1 suv overturned, 1 pedestrian involved Created: 12/21/16 11:42 by CHART Support
Howard County [I-95 SOUTH AT EXIT 41A-B MD 175 WATERLOO RD (SB) [Other]] 1/4 Southbound-left Traffic Lane closed 2/4 Northbound-left Shoulder closed right Traffic Lane closed center left Traffic Lane closed Created: 01/11/17 15:14 by CHART Support

**Current SHA & MDTA Deployment**

	State Personnel	State Equipment	Hired Equipment	Total Equipment
SHA	28	19	17	36
MDTA	0	0	0	0
Total	28	19	17	36

**SOC Wreckers & Route Patrols**  
Wreckers: Some text here  
Route Patrols: Some text here

**SHA Office of Communications**  
Some text here

**National Capitol Region Notes**  
Some text here

Figure 4-21 EORS SARS PDF Report Winter Event Screen Capture

**Route Patrols**

Some text here

**Baltimore Metropolitan Region****Notes**

Some text here

**Route Patrols**

Some text here

**Anne Arundel County & Southern Maryland****Notes**

Some text here

**Weather Related Closures**

Anne Arundel [I-195 SOUTH/NORTH AT AVIATION BLVD]

Anne Arundel [I-97 SOUTH AT DORSEY RD]

Anne Arundel [I-97 SOUTH/NORTH AT BALTO ANNAPOLIS BLVD]

Anne Arundel [I-97 SOUTH/NORTH AT BENFIELD BLVD]

**North Central Maryland****Notes**

Some text here

**Route Patrols**

Some text here

**Upper Eastern Shore****Notes**

Some text here

**Lower Eastern Shore****Notes**

Some text here

**Western Maryland****Summary**

Shop	Precipitation	Air	SFC	Snow	Ice	Road Conditions				
						I	P	S	Ops Type	Activities
LaVale		1		0		Isolated Coverage	Isolated Coverage	Isolated Coverage	IN	
	PRECIPITATION, FOG, ICE									
Hagerstown		15		1	0.1	Isolated Coverage	Overall Coverage	Overall Coverage	IN	Plowing
	PRECIPITATION, SNOW									
Keyser's Ridge		34	47	0.2		Wet	Wet	Wet	IN	Applying Materials
	PRECIPITATION, SNOW, RAIN, FOG									

**Notes**

Some text here

**Figure 4-22 EORS SARS PDF Report Winter Event Screen Capture (cont)**

**MDTA**

**Notes**

Some text here

**Reported by Other Agencies**

Some text here

**Figure 4-23 EORS SARS PDF Report Winter Event Screen Capture (cont)**

## 4.2.2 SARS PDF Report Non-Winter Event

Maryland Department of Transportation  
State Highway Administration  
Situational Awareness Report  
Event ID 170419N001 - Non-Winter Event  
4/24/2017 2:45 PM

**Statewide Summary**  
Statewide summary text

**Major Incidents**

Montgomery County [US 50 BAY BRIDGE [Weather Closure, High Water]] 2/3 Westbound-2 right Traffic Lanes closed Created: 04/12/17 16:18 by CHART Support
PACounty [PARROUTE AT PAINTROUTE [Collision, Property Damage]] 1 car involved, 1 single unit truck overturned Created: 02/17/17 14:48 by
Howard County [I-95 SOUTH AT EXIT 43A MD 100 (SB) [Utility Problem][Gas Leak]] 5 cars involved, 2 cars (with trailer) involved, 3 suvs (with trailer) (2 involved, 1 overturned) Created: 01/11/17 19:37 by CHART Support
Prince George's County [US 50 EAST/WEST AT MP 0 (WASH. DC / MD STATE LINE) [Weather Closure, Debris][Tree Down]] 1 car involved, 1 suv overturned, 1 pedestrian involved Created: 12/21/16 11:42 by CHART Support
Howard County [I-95 SOUTH AT EXIT 41A-B MD 175 WATERLOO RD (SB) [Other]] 1/4 Southbound-left Traffic Lane closed 2/4 Northbound-left Shoulder closed right Traffic Lane closed center left Traffic Lane closed Created: 01/11/17 15:14 by CHART Support

**Current SHA & MDTA Deployment**

	State Personnel	State Equipment	Hired Equipment	Total Equipment
SHA	0	0	0	0
MDTA	0	0	0	0
Total	0	0	0	0

**SOC Wreckers & Route Patrols**  
Wreckers: Some other text here  
Route Patrols: Some other text here

**SHA Office of Communications**  
Some other text here

**National Capitol Region**  
**Notes**  
Some other text here  
**Route Patrols**  
Some other text here

**Baltimore Metropolitan Region**  
**Notes**  
Some other text here  
**Route Patrols**  
Some other text here

Figure 4-24 EORS SARS PDF Report Non-Winter Screen Capture

## **Anne Arundel County & Southern Maryland**

### **Notes**

Some other text here

### **Weather Related Closures**

Anne Arundel [I-195 SOUTH/NORTH AT AVIATION BLVD]

Anne Arundel [I-97 SOUTH AT DORSEY RD]

Anne Arundel [I-97 SOUTH/NORTH AT BALTO ANNAPOLIS BLVD]

Anne Arundel [I-97 SOUTH/NORTH AT BENFIELD BLVD]

## **North Central Maryland**

### **Notes**

Some other text here

### **Route Patrols**

Some other text here

## **Upper Eastern Shore**

### **Notes**

Some other text here

## **Lower Eastern Shore**

### **Notes**

Some other text here

## **Western Maryland**

### **Notes**

Some other text here

## **MDTA**

### **Notes**

Some other text here

## **Reported by Other Agencies**

Assist others text

**Figure 4-25 EORS SARS PDF Report Non-Winter Screen Capture (cont)**

## 4.3 Situational Awareness (SARS) Archive

### 4.3.1 SARS Archive Search Panel

The screenshot shows the 'ViewSarsArchive' interface for the 'Situational Awareness Reporting Archive'. The search panel includes fields for 'Season' (selected as '2016-2017'), 'Between' (date range fields), 'Event' (dropdown menu showing '-Select-' and three options: '161231W020', '170311W022', and '170419N001'), and 'Created By' (dropdown menu showing '-Select-' and two options: 'dan' and 'host'). A 'Search' button is at the bottom.

Figure 4-26 EORS SARS Archive Search Panel Screen Capture

This screenshot is identical to Figure 4-26, but the 'Event' dropdown menu is open, displaying three options: '161231W020', '170311W022', and '170419N001'. The 'Search' button is visible at the bottom.

Figure 4-27 EORS SARS Archive Search Panel Screen Capture (cont)

This screenshot is identical to Figures 4-26 and 4-27, but the 'Created By' dropdown menu is open, displaying two options: 'dan' and 'host'. The 'Search' button is visible at the bottom.

Figure 4-28 EORS SARS Archive Search Panel Screen Capture (cont)

**ViewSarsArchive**

**Situational Awareness Reporting Archive**

<input type="radio"/> Season	2016-2017 <input checked="" type="checkbox"/>		
<input checked="" type="radio"/> Between	04/01/2017 <input type="button" value="Calendar"/>	and	04/25/2017 <input type="button" value="Calendar"/>
<input type="checkbox"/> Event	-Select- <input type="button" value="Down"/>		
<input type="checkbox"/> Created By	-Select- <input type="button" value="Down"/>		
<input type="button" value="Search"/>			
Show <input type="button" value="20"/> entries per page			

April 2017						
Su	Mo	Tu	We	Th	Fr	Sa
26	27	28	29	30	31	1
2	3	4	5	6	7	8
9	10	11	12	13	14	15
16	17	18	19	20	21	22
23	24	25	26	27	28	29
30	1	2	3	4	5	6

**Figure 4-29 EORS SARS Archive Search Panel Screen Capture (cont)**

**ViewSarsArchive**

**Situational Awareness Reporting Archive**

<input type="radio"/> Season	2016-2017 <input checked="" type="checkbox"/>		
<input checked="" type="radio"/> Between	04/01/2016 <input type="button" value="Calendar"/>	and	04/25/2016 <input type="button" value="Calendar"/>
<input type="checkbox"/> Event	-Select- <input type="button" value="Down"/>		
<input type="checkbox"/> Created By	-Select- <input type="button" value="Down"/>		
<input type="button" value="Search"/>			

No events for season/dates selected

**Figure 4-30 EORS SARS Archive Search Panel Screen Capture (cont)**

### 4.3.2 SARS Archive Table

Show	<input checked="" type="checkbox"/> 20	entries per page		
Event ID	Date/Time	Filename	Created By	Outlook Groups
170419N001	4/24/2017 1:31:46 PM	SARS_2017_04_24_170419N001_Report_2.pdf	host	Test group 1 Test group 2
161231W020	4/21/2017 12:30:30 PM	SARS_2017_04_21_161231W020_Report_20.pdf	host	Test group 1 Test group 2
161231W020	4/21/2017 12:30:12 PM	SARS_2017_04_21_161231W020_Report_19.pdf	host	Test group 1 Test group 2
161231W020	4/21/2017 12:29:54 PM	SARS_2017_04_21_161231W020_Report_18.pdf	host	Test group 1 Test group 2
161231W020	4/21/2017 9:48:35 AM	SARS_2017_04_21_161231W020_Report_17.pdf	host	
161231W020	4/21/2017 9:45:33 AM	SARS_2017_04_21_161231W020_Report_16.pdf	host	
161231W020	4/21/2017 9:42:35 AM	SARS_2017_04_21_161231W020_Report_15.pdf	host	
161231W020	4/21/2017 9:42:14 AM	SARS_2017_04_21_161231W020_Report_14.pdf	host	
161231W020	4/20/2017 4:24:29 PM	SARS_2017_04_20_161231W020_Report_13.pdf	host	
161231W020	4/20/2017 1:56:43 PM	SARS_2017_04_20_161231W020_Report_12.pdf	host	
170419N001	4/19/2017 2:39:21 PM	SARS_2017_04_19_170419N001_Report_1.pdf	host	
161231W020	4/19/2017 10:10:10 AM	SARS_2017_04_19_161231W020_Report_9.pdf	host	
161231W020	4/19/2017 12:04:42 PM	SARS_2017_04_19_161231W020_Report_11.pdf	host	

Figure 4-31 EORS SARS Archive Table Screen Capture

Show	<input checked="" type="checkbox"/> 20	entries per page		
Event ID	Date/Time	Filename	Created By	Outlook Groups
	4/27/2015 2:44:04 PM	SARS_2015_04_27_Report_01.pdf		
	2/26/2015 12:24:06 PM	SARS_2015_02_26_Report_01.pdf		
	2/25/2015 4:12:32 PM	SARS_2015_02_25_Report_17.pdf		
	2/25/2015 4:11:34 PM	SARS_2015_02_25_Report_16.pdf		
	2/23/2015 7:00:08 AM	SARS_2015_02_23_Report_03.pdf		
	2/23/2015 6:11:32 AM	SARS_2015_02_23_Report_02.pdf		
	2/23/2015 5:32:18 AM	SARS_2015_02_23_Report_01.pdf		
	2/22/2015 10:49:54 AM	SARS_2015_02_22_Report_12.pdf		
	2/22/2015 8:41:50 AM	SARS_2015_02_22_Report_11.pdf		
	2/22/2015 6:54:50 AM	SARS_2015_02_22_Report_10.pdf		
	2/22/2015 4:54:42 AM	SARS_2015_02_22_Report_09.pdf		
	2/21/2015 9:47:52 PM	SARS_2015_02_21_Report_08.pdf		
	2/21/2015 7:47:28 PM	SARS_2015_02_21_Report_07.pdf		

Figure 4-32 EORS SARS Archive Legacy Reports Screen Capture

## 5.1 SARS Main Container Page

### Overview

The main purpose of the SARS Main Container (ViewSars.ascx) is to act as a container for all other SARS controls and to maintain the proper screen display for SARS. In addition to web user controls, the GUI code for the main container contains the event selection drop down list and the module menu. Once the page is loaded the main container listens for the following events:

- Page Load: If the page is not a post back, the main page determines the default landing page based on the user's role membership and sets up the event drop down list. On post back the main container page updates the event ID for each child control and notifies each if they are active or not.
- Event Selected: When an event is selected the main container page notifies all relevant child controls which event was selected and displays the SARS form
- Menu Events: When a menu event occurs the main container displays the correct page and updates the IsActive field for each child control and updates the event ID in each child control.
- Report Save and Report Save & Email button clicks: The ReportPreview control will handle the save and email functions then bubble an event that the main container can use to handle updating the display to the success page. The ReportPreview control will use a custom EventArgs object that contains a field indicating if the operation was successful.

The SARS controls include:

- Event Selector
- SARS Menu
- EOC Statewide Summary Page
- EOC Summary Data Page
- Generate Report Page
- CHART Page
- PIO Page
- District Pages(Districts 1 - 7 and MDTA)
- Help Page
- Save Only Success Page
- Save & Email Success Page

Each control is created as a Web User Control. The following lists getter methods that web user controls must implement for ViewSars.ascx to function properly for report generation:

1. Chart page
  1. Setter for event ID - expected to be named EventID
  2. Setter for isActive - expected to be IsActive
  3. Hidden field indicating if the form data has been changed by the user
2. District Pages
  1. Setter for district - expected to be named Dist
  2. Setter for event ID - expected to be named EventID
  3. Setter for isActive - expected to be IsActive
  4. Hidden field indicating if the form data has been changed by the user
3. Pio Page
  1. Setter for event ID - expected to be named EventID
  2. Setter for isActive - expected to be IsActive
  3. Hidden field indicating if the form data has been changed by the user
4. EOC Statewide Summary
  1. Setter for event ID - expected to be named EventID
  2. Setter for isActive - expected to be IsActive
  3. Hidden field indicating if the form data has been changed by the user

The main functions of ViewSars.ascx are:

- Allow user to select an event and display the SARS input form. Also notify all child controls of the event selected
- Determine the default landing page for users based on role membership
- Handle set up for report generation by collecting all form data into an object and updating ReportPreview.ascx prior to loading it

ViewSars.ascx.cs will implement the following methods:

- Protected void Page\_Load(object sender, EventArgs e) - handles page set up. Gets user permissions and sets event IDs for child controls
- private void SetEventIdActiveTab(string tab) - sets the event ID and is active variables on each child control
- private void GenRepClicked(object sender, EventArgs e) - listens for Generate Report button click on the Generate Report parameters page and displays the Report Preview page

## Menu Control

The SARS menu will be a Bootstrap navigation object. It handles the job of displaying the correct tab in the GUI. ViewSars.ascx.cs will trigger a post back and update the selected page. The menu is created inside an asp.net web user control and contains a

single property and a single method. The property is the selected tab which is only used on the initial page load to show the user's default landing page. The method (HideEocReport) is used by ViewSars.ascx.cs to remove the Generate Report menu item for users who do not have permission to perform that operation.

The menu control contains a javascript event listener on menu item click events. It checks the isAltered variable to determine if the user changed any text on the active page without saving. If the data is altered and unsaved the menu will display a confirmation box. If the user selects continue, the navigation will continue and the changes will be lost. Otherwise navigation will be canceled so the user can save the data.

## Helper Classes

Two helper classes will be created and placed in APP\_Code/SARS for the SARS modules:

- UserPermission.cs
- SarsConstants.cs

UserPermission.cs is a static class that will have two methods: IsReadOnly(UserInfo, string) and GetDefaultView(UserInfo).

IsReadOnly takes the UserInfo object and a page name to determine if a user has edit permissions on the page based on the user's role membership. It may also be used as a check in the SarsController class to verify if the user has permissions to save data. It is not strictly necessary to check user permissions in the controller class but it is a best practice that will be used in the SARS module.

GetDefaultView will be called once on page load (not post back) to determine which SARS view should be the default landing page based on the user's role membership.

SarsConstants.cs is a static class that contains string constants that are used throughout the SARS module.

## JavaScript

JavaScript for the main container page is included in ViewSars.ascx. It contains the following global variables that may be used by child controls:

- isAltered - indicates that a text area in a child control has been altered by not changed
- activeMain - contains the currently active page name
- eventID - contains the ID of the selected event
- eventName - contains the name (if any) of the selected event

String constants that will be used client-side will be declared in the JavaScript of the main container page and will be of global scope.

The document load function will use the current window size to set the default sizes for the modal window containing the SARS Report. The following event listeners will be bound to page controls:

- window resize: recalculates size of modal SARS report window
- event selector change: updates the user page to correct view of the form with the default landing page selected

## CSS

Most of the stylesheets for the SARS application will be stored in the module.css file under the root of the SARS module. The location and naming convention ensures that DNN will automatically pick up the stylesheets and apply them to the module. Modal windows are an exception. DNN will not apply global stylesheets to modal windows. The css for modal windows must be in the control that invokes them to be applied.

### **5.2    SARS EOC Statewide Summary Page**

#### **Overview**

The SARS EOC Statewide Summary page shall allow EORS users to enter text regarding statewide summary data and data regarding to the activities of other agencies. All users who have access to SARS will be able to view data saved from this page but only users in SOC, OOMAdmin, EOCAdmin and administrators will be able to edit it. The EOC Statewide Summary page shall display the same fields for both winter storm events and non-winter events.

#### **Program Flow**

The flow in the EOC Statewide Summary tab is relatively simple. When a user selects the EOC Statewide Summary (EOC>>Statewide Summary) tab from the module's menu EORS will access the database and return data from the *EORS\_SARS\_State* table that is less than or equal to 8 hours old. If no data exists or the data is older than 8 hours, the fields will be left empty. If the user is in a role with edit rights the text fields will be editable. Otherwise, they will be read-only. If the user makes any edits to the page a flag will be set indicating that unsaved changes exist. If the user attempts to navigate away from the tab or page a message will be displayed giving them a choice to stay and save their data or to leave without saving. If they leave without saving, their changes will be lost. When the user saves their changes a message will be displayed near the save button indicating the record was successfully saved or an error message if the operation was unsuccessful. When the save button is clicked the flag indicating unsaved changes

will be reset to its original state. The user will remain on the EOC Statewide Summary tab after a save regardless of successfulness of the operation. If the user does any further edits after the save, the save message will be hidden and the flag will be reset.

### **Conditionals for User on EOC Statewide Summary page:**

User Navigates to Statewide Summary Page

#### **Read-Only**

If User is PIO or District User(s) or MDTA:

#### **Read/Write**

If User is EOCAdmin, SOC, OOMAdmin or Administrator: User is able to edit the text fields

**Navigating away from page:** If User has made no edits and tries to navigate away to other tab User goes to other page If User has made an edit and tries to navigate away to other tab Popup Appears asking "If you leave this tab without Saving you will lose your work. Do you still want to leave?" With Leave and Cancel buttons If User clicks Leave he will go to the new tab and the current data on the page will be lost Else If User clicks Cancel, he stays on the page with data intact

## **StatewideSummary Class Members & Methods**

The EOC Statewide Summary page will be implemented in a web user control named StatewideSummary.ascx with an associated code behind. The interface code will reside in the DesktopModule/SARS/Components folder.

### **Member Variables**

- bool \_isActive - indicates that the EOC Statewide Summary tab is the active tab in the interface. This will be set by the main container class and the CHART data will only be retrieved from the database if the value of this variable is true.
- string \_eventID - the EOC Statewide Summary tab uses this variable to retrieve data from the database for the correct event. It will be set by the main container class when the event is selected

### **Class Methods**

- protected override void OnInit(EventArgs e) - Adds event listener for the Page\_LoadComplete event
- protected void Page\_Load(object sender, EventArgs e) - Standard page load event. Toggles visibility of error messages.

- protected void Page\_LoadComplete(object sender, EventArgs e) - If the tab is active this method gets the data for the page and populates the form fields. If users does not have edit rights, it sets the text areas to read-only.
- public void loadStatewideSummaryPage() - Handles database access and populating form fields
- protected void btnSave\_click(object sender, EventArgs e) - Event handler for the save button click event. Saves the data to the EORS database.
- protected void text\_changed(object sender, EventArgs e) - Event handler for text area text changed event. Handles the event for all text areas on the tab and sets a flag indicating that unsaved changes exist.
- public string EventID - Getter/Setter for \_eventID.
- public bool IsActive - Getter/Setter for \_isActive.

## **EOC Statewide Summary Data Access**

Data supplied to the EOC Statewide Summary tab will be supplied from the following SarsController class methods:

- GetEocStatewide(string EventID) - A static method that returns data from the EORS\_SARS\_STATE table in the EORSV2 database that is 8 hours old or less. Returns data as a EocInfo object.
- SaveEocStatewide(UserInfo userInfo, EocInfo eocInfo) - A static method to save EOC Statewide Summary data to the EORS\_SARS\_STATE table. Passes the UserInfo object to save the updated by and update email address fields and a EocInfo object containing the CHART text fields to be saved.

## **EocInfo Object**

The EocInfo object is used to pass EOC Statewide Summary data back and forth to the controller methods to save and retrieve EOC Statewide Summary data to the EORSV2 database. The following describes the class member variables and methods:

### **Member Variables**

- string \_statewideSummary - Data for/from the Statewide Summary text box
- string \_otherAgencies - Data for/from the Other Agencies text box

### **Methods**

- public EocInfo() - Empty constructor
- public EocInfo(string lastUpdated, string updatedBy, string email, string eventID) - Constructor with user information initialization
- public EocInfo(string lastUpdated, string updatedBy, string email, string eventID, string summary, string others) - Constructor with full initialization
- public string StatewideSummary- Getter/Setter for \_statewideSummary

- public string OtherAgencies - Getter/Setter for \_otherAgencies

The code will reside in the APP\_Code/SARS directory.

## Database

Currently Situational Awareness saves Statewide info to *EORS\_SARS\_State* table. The table will have the following structure:

Name	Type	Key	Allows Nulls
update_time	DATETIME		NOT NULL
update_by	VARCHAR(50)		NOT NULL
update_email	VARCHAR(254)		NOT NULL
summary	VARCHAR(MAX)		NULL
others	VARCHAR(MAX)		NULL
stateID	UNIQUEIDENTIFIER	PK	NOT NULL
eventID	VARCHAR(10)	FOREIGN KEY REFERENCES EORS_Event(EventID)	NOT NULL

**Email Address Restrictions:** That limit is a maximum of 64 characters (octets) in the “local part” (before the “@”) and a maximum of 255 characters (octets) in the domain part (after the “@”) for a total length of 320 characters. However, there is a restriction in RFC 2821 on the length of an address in MAIL and RCPT commands of 254 characters. Since addresses that do not fit in those fields are not normally useful, the upper limit on address lengths should normally be considered to be 254.

Data definitions are as follows:

- update\_time - timestamp for when the row was inserted
- update\_by - username of user who entered the report
- update\_email - email address of user who entered the report
- summary - text from the Statewide Summary text area in the EOC Statewide Summary tab in the GUI
- others - text from the Assist Other Agencies text area in the EOC Statewide Summary tab in the GUI
- stateID - ROWGUID auto-generated as primary key for each row in the table
- eventID - ID of the event that the report is referencing

Data from the *EORS\_SARS\_State* table is accessed via two SQL Server stored procedures:

- EORS\_SARS\_State\_GET - Gets data for a given event from the EORS\_SARS\_State table. Only data within 8 hours of execution will be returned.
- EORS\_SARS\_State\_UPDATE - Updates date in the EORS\_SARS\_State table.

The stored procedures accessing the EORS\_SARS\_State table use the following signatures:

- EORS\_SARS\_State\_GET @eventID
  - Returns: update\_time, update\_by, update\_email, summary, others, eventID
- EORS\_SARS\_CHART\_UPDATE @update\_by, @update\_email, @summary, @others, @eventID

### **5.3 SARS EOC Summary Data Page**

#### **Overview**

The EOC Summary Data page consists of static data only. The EOC Summary Data page will be implemented as a Web User Control that extends the DNN PortalModuleBase class. For Winter Storm Events the page will contain the following items:

- Snow Emergencies
- Major Incidents
- Current SHA & MDTA Deployments
- Weather Related Road Closures

The Non-Winter Events display will include:

- Major Incidents
- Current SHA & MDTA Deployments
- Weather Related Road Closures

The EOC Summary Data page shall also include two additional fields (kept as Hidden Fields) within its ViewState: eventID and selectedTab. The event ID field will be set when an event is selected to report upon. This will be done by an event listener in the main container view (ViewSars.ascx). The EOC Summary Data page will use the event ID to retrieve deployment data from the EORSV2 database. Snow Emergencies, Incidents and Road Closures are not associated with event IDs so all will be included in the display.

## **Program Flow**

The EOC Summary Data page is accessed by selecting EOC>>Summary Data from the SARS menu. SARS will query the database for active snow emergencies (winter events only), shop resource deployment data and weather related road closures. SARS also queries the ATMS "white board" for major incidents. All data will be returned as DataTable object - one for each data set. The data will be displayed in the interface as read-only text. Each table will implement paging and display 10 rows per page. If no data exists for any table a no data message will be displayed. The Snow Emergencies table will include all active snow emergencies and all snow emergencies that were lifted within the past 24 hours.

### **Conditionals for EOC Summary Data =**

Winter events will include a Snow Emergencies section. The Snow Emergencies section will not be displayed for non-winter events.

## **EOC Static Data Class Members & Methods**

### **Member Variables**

- private bool \_isActive - Set by main container class to determine if the page is selected
- private string \_eventID - Set by main controller class to notify which event was selected
- private StringBuilder \_sb - Used to build error messages

### **Class Methods**

- protected void Page\_Load(object sender, EventArgs e) - Standard handler for page load event. Gets all page data
- protected void tbIncidents\_DataBind(object sender, System.EventArgs e) - Binds the major incidents data to the GridView in the GUI
- protected void gvSep\_PageIndexChanging(object sender, GridViewPageEventArgs e) - Event handler for Snow Emergencies GridView paging
- protected void gvClosures\_PageIndexChanging(object sender, GridViewPageEventArgs e) - Event Handler for Closures GridView paging
- public string EventID - Getter/SEtter for \_eventID
- public bool IsActive - Getter/Setter for \_isActive

## **EOC Summary Data Access**

Data supplied to the EOC Summary Data tab will be supplied from the following SarsController class methods:

- GetSnowEmergency() - A static method that returns snow emergency data from the EORSV2 database as a data table
- GetChartClosures() - A static method to retrieve weather related road closures from the CHARTWeb database as a data table
- GetDeployment() - A static method to get shop resource deployment data from the EORSV2 database
- GetIncidentsText() - A static method to retrieve major incident data from the ATMS "white board"  
[\(http://chartsocweb1/chartlite/app?action=exportPriorityEventList\)](http://chartsocweb1/chartlite/app?action=exportPriorityEventList)

Data is gathered from the EORS database with the following stored procedures

- EORS\_Snow\_Emergency\_GETALL
- EORS\_SARS\_CHART\_Closures()
- EORS\_SARS\_Shop\_Deployment\_GET

Major Incident data is retrieved by accessing <http://chartsocweb1/chartlite/app?action=exportPriorityEventList> and parsing the text that is returned

### **5.4 SARS Generate Report Parameters Page**

#### **Overview**

SARS users with appropriate permission will be allowed to generate PDF reports and save them to the archive. The SARS reports take many parameters which indicate which sections to include in the report. The parameter list will be displayed to the user as a list of checkboxes each associated with a report section. The default is to include all sections (i.e. all checkboxes checked). The Generate Report Parameters are captured in the screen capture below (\*Note: for non-winter events the Snow Emergencies checkbox will not be available).

When the user clicks the Generate Report button the report preview will be displayed.). The preview will contain an embedded PDF report that has not been saved to the archive or database. It also provides the ability to save and email the report (email up to 5 Outlook groups), save only or cancel without saving. Additionally, optional email subject lines and email message inputs will be provided.

## Program Flow

If the user has appropriate permissions a menu item EOC>>Generate Report will be available. When the user selects the Generate Report menu item the parameters interface will load. The user selects the report sections to include and clicks the Generate Report button. The GenerateReport class will instantiate ReportParams and SarsPdfReport objects (see the SarsPdfReport section for class details). The SarsPdfReport object will generate a PDF document matching the supplied parameters and return a list of images to display as the report in the embedded iframe. The SarsPdfReport will also save a copy of the report to the ViewState as a serialized ReportInfo object which contains the report as a byte array. If the user clicks the Cancel button SARS will return the user to the parameters selection view. If the user clicks the Save Only button the GenerateReport object will load the ReportInfo object from the ViewState and invoke the (static) ArchiveSarsReport method on the SarsPdfReport object to save the report to the archive and to save report meta data to the EORSV2 database. If the user clicks the Save & Email button the steps for the save are followed and the report will be emailed to the selected Outlook groups with the subject and message as specified by the user. Information required to manage the Outlook groups will be stored in the web.config file. After successful completion of Save or Save & Email the success message will be displayed (pictured below)

Clicking the Create another Report button will display the parameters collection page. Clicking the To Download Pdf Click Here link will open the generated file in a separate window/tab. Selecting any SARS menu item will return the user to the input forms.

### Conditionals for User on Generate Report page:

**Not Accessible** If User is not an Administrator, EOCAdmin, OOMAdmin or SOC  
User: User cannot access Generate Report tab menu item

**Send Report Generator which checkboxes are checked** If User unselects or selects certain checkboxes that data should persist to report generator.

**Outlook Groups are improperly configured** The interface will display error messages that are in line with those displayed in Create Statewide Ops plan so administrators can troubleshoot. They will be displayed in Email Options box

**User Saves a Report** If User does not select any email groups: User is taken to a page that only shows the success or failure to generate a report, with a link to download it. If user does select even one Email group: User is taken to a page that first displays success or failure in generating a report, and success(green text) or failure(Red text) in the system's attempts to Email the report.

**User Generates a Report** If Report cannot be generated an error page will appear.

## **Generate Report Class Members & Methods**

The Generate Report class will be named GenerateReport.ascx and will reside with its associated code behind in the DesktopModules/SARS/Components directory.

### **Member Variables**

- private string \_filename - The name the report will be saved under
- private bool \_reportActive - Set by main container page to indicate that the generate report interface is active

### **Class Methods**

- private ReportParams GetReportParams() - Called when the Generate Report button is clicked. It creates a ReportParams object to be passed to the SarsPdfReport object to determine what report sections to include.
- protected void Page\_Load(object sender, EventArgs e) - Standard event handler for page load event. Toggles visibility of error messages, shows/hides SEP checkbox depending on event type and shows/hides page sections
- protected void btnGenerateReport\_click(object sender, EventArgs e) - Generate Report button click event handler. Generates the report preview and displays the preview interface
- protected void btnSave\_click(object sender, EventArgs e) - Save button click event handler. Saves the report to the archive and saves report meta data to the EORSV2 database. On success display success interface.
- protected void btnReturn\_click(object sender, EventArgs e) - Cancel button click event handler. Hides the preview interface and displays the parameters collection page.
- protected void btnSaveEmail\_click(object sender, EventArgs e) - Save & Email button click event handler. Saves and emails the report. On success display success interface.
- public void FormatOnEventType() - Show/Hides Snow Emergency checkbox depending on event type

### **Database**

The Generate Report class does not require any database activity. All database activity is in the SarsPdfReport class.

## **5.5 SARS CHART Page**

### **Overview**

The SARS CHART page shall allow EORS users to enter text regarding SOC wreckers and route patrols and route patrols in TOC 3, TOC 4 and TOC 7. All users who have access to SARS will be able to view data saved from this page but only users in SOC, OOMAdmin, EOCAdmin and administrators will be able to edit it. The CHART page shall display the same fields for both winter storm events and non-winter events.

### **Program Flow**

The flow in the CHART tab is relatively simple. When a user selects the CHART tab from the module's menu, EORS will access the database and return data from the *EORS\_SARS\_CHART* table that is less than or equal to 8 hours old. If no data exists or the data is older than 8 hours, the fields will be left empty. If the user is in a role with edit rights the text fields will be editable. Otherwise, they will be read-only. If the user makes any edits to the page a flag will be set indicating that unsaved changes exist. If the user attempts to navigate away from the tab or page a message will be displayed giving them a choice to stay and save their data or to leave without saving. If they leave without saving, their changes will be lost. When the user saves their changes a message will be displayed near the save button indicating the record was successfully saved or an error message if the operation was unsuccessful. When the save button is clicked the flag indicating unsaved changes will be reset to its original state. The user will remain on the CHART tab after a save regardless of successfulness of the operation. If the user does any further edits after the save, the save message will be hidden and the flag will be reset.

#### **Conditionals for User on CHART page:**

User Navigates to CHART Page

##### **Read-Only**

If User is PIO or District User:

User Sees ReadOnly fields loaded with latest data from server

##### **Editor**

If User is an administrator, EOCAdmin, OOMAdmin or SOC user:

User is able to edit the textfields

##### **Save Button Outcomes**

If Save Successful

Green text on top of CHART page says "Save Successful"

#### Else If Save fails

Red text on top of CHART page says "Save Failed, Contact Administrator"

#### Navigating away from page:

If User has made no edits and tries to navigate away to other tab

User goes to other page

If User has made an edit and tries to navigate away to other tab

Popup Appears asking "If you leave this tab without Saving you will lose your work. Do you still want to leave?" With Leave and Cancel buttons

If User clicks Leave he will go to the new tab and the current data on the page will be lost

Else If User clicks Cancel, he stays on the page with data intact

## CHART Class Members & Methods

The CHART page will be implemented in a web user control named CHART.ascx with an associated code behind. The interface code will reside in the DestopModule/SARS/Components folder.

### Member Variables

- bool \_isActive - indicates that the CHART tab is the active tab in the interface. This will be set by the main container class and the CHART data will only be retrieved from the database if the value of this variable is true.
- string \_eventID - the CHART tab uses this variable to retrieve data from the database for the correct event. It will be set by the main container class when the event is selected

### Class Methods

- protected override void OnInit(EventArgs e) - Adds event listener for the Page\_LoadComplete event
- protected void Page\_Load(object sender, EventArgs e) - Standard page load event. Toggles visibility of error messages.
- protected void Page\_LoadComplete(object sender, EventArgs e) - If the tab is active this method gets the data for the page and populates the form fields. If users does not have edit rights, it sets the text areas to read-only.
- protected void btnSaveChart\_Click(object sender, EventArgs e) - Event handler for the save button click event. Saves the data to the EORS database.
- protected void text\_Changes(object sender, EventArgs e) - Event handler for text area text changed event. Handles the event for all text areas on the tab and sets a flag indicating that unsaved changes exist.
- public string EventID - Getter/Setter for \_eventID.
- public bool IsActive - Getter/Setter for \_isActive.

## CHART Data Access

Data supplied to the CHART tab will be supplied from the following SarsController class methods:

- GetChart(string EventID) - A static method that returns data from the EORS\_SARS\_CHART table in the EORSV2 database that is 8 hours old or less. Returns data as a ChartInfo object.
- SaveChart(UserInfo userInfo, ChartInfo chartInfo) - A static method to save CHART data to the EORS\_SARS\_CHART table. Passes the UserInfo object to save the updated by and update email address fields and a ChartInfo object containing the CHART text fields to be saved.

## ChartInfo Object

The CHARTInfo object is used to pass CHART data back and forth to the controller methods to save and retrieve CHART data to the EORSV2 database. The following describes the class member variables and methods:

### Member Variables

- string \_socWreckerText - Data for/from the SOC Heavy/Light Wreckers text box
- string \_socRoutePatrolText - Data for/from SOC Route Patrols text box
- string \_toc3RoutePatrolText - Data for/from TOC 3 Route Patrols text box
- string \_toc4RoutePatrolText - Data for/from TOC 4 Route Patrols text box
- string \_toc7RoutePatrolText - Data for/from TOC 7 Route Patrols text box

### Methods

- public ChartInfo() - Empty constructor
- public ChartInfo(string lastUpdated, string updatedBy, string email, string eventID) - Constructor with user information initialization
- public ChartInfo(string lastUpdated, string updatedBy, string email, string eventID, string socWrecker, string socRp, string toc3, string toc4, string toc7) - Constructor with full initialization
- public ChartInfo(ChartInfo chartInfo) - Copy constructor
- public string SocWrecker - Getter/Setter for **socWreckerText**
- public string SocRoutePatrol - Getter/Setter for **\_socRoutePatrolText**
- public string Toc3RoutePatrol - Getter/Setter for **\_toc3RoutePatrolText**
- public string Toc4RoutePatrol - Getter/Setter for **\_toc4RoutePatrolText**
- public string Toc7RoutePatrol - Getter/Setter for **\_toc7RoutePatrolText**

The code will reside in the APP\_Code/SARS directory.

## Database

Currently Situational Awareness saves CHART info to *EORS\_SARS\_CHART* table. The table will have the following structure:

Name	Type	Key	Allows Nulls
update_time	DATETIME		NOT NULL
update_by	VARCHAR(50)		NOT NULL
update_email	VARCHAR(254)		NOT NULL
toc3_route_patrols	VARCHAR(MAX)		NULL
toc4_route_patrols	VARCHAR(MAX)		NULL
toc7_route_patrols	VARCHAR(MAX)		NULL
soc_wreckers	VARCHAR(MAX)		NULL
soc_route_patrols	VARCHAR(MAX)		NULL
chartID	UNIQUEIDENTIFIER	PK	NOT NULL
eventID	VARCHAR(10)	FOREIGN KEY REFERENCES EORS_Event(EventID)	NOT NULL

**Email Address Restrictions:** That limit is a maximum of 64 characters (octets) in the “local part” (before the “@”) and a maximum of 255 characters (octets) in the domain part (after the “@”) for a total length of 320 characters. However, there is a restriction in RFC 2821 on the length of an address in MAIL and RCPT commands of 254 characters. Since addresses that do not fit in those fields are not normally useful, the upper limit on address lengths should normally be considered to be 254.

Data definitions are as follows:

- update\_time - timestamp for when the row was inserted
- update\_by - username of user who entered the report
- update\_email - email address of user who entered the report
- toc3\_route\_patrols - text from the TOC 3 Route Patrols text area on the CHART tab in the GUI
- toc4\_route\_patrols - text from the TOC 4 Route Patrols text area on the CHART tab in the GUI
- toc7\_route\_patrols - text from the TOC 7 Route Patrols text area on the CHART tab in the GUI
- soc\_wreckers - text from the SOC Heavy/Light Wreckers text area on the CHART tab in the GUI

- soc\_route\_patrols - text from the SOC Route Patrols text area on the CHART tab in the GUI
- chartID - ROWGUID auto-generated as primary key for each row in the table
- eventID - ID of the event that the report is referencing

Data from the *EORS\_SARS\_CHART* table is accessed via two SQL Server stored procedures:

- EORS\_SARS\_CHART\_GET - Gets data for a given event from the EORS\_SARS\_CHART table. Only data within 8 hours of execution will be returned.
- EORS\_SARS\_CHART\_UPDATE - Updates date in the EORS\_SARS\_CHART table.

The stored procedures accessing the *EORS\_SARS\_CHART* table use the following signatures:

- EORS\_SARS\_CHART\_GET @eventID
  - Returns: update\_time, update\_by, update\_email, toc3\_route\_patrols, toc4\_route\_patrols, toc7\_route\_patrols, soc\_wreckers, soc\_route\_patrols, eventID
- EORS\_SARS\_CHART\_UPDATE @update\_by, @update\_email, @toc3\_route\_patrols, @toc4\_route\_patrols, @toc7\_route\_patrols, @soc\_wreckers, soc\_route\_patrols, @eventID

## **5.6 SARS PIO Page**

### **Overview**

The SARS PIO page shall allow EORS users to enter text regarding PIO activities during an emergency. All users who have access to SARS will be able to view data saved from this page but only users in SOC, OOMAdmin, EOCAdmin, administrators and users in the PIO role will be able to edit it. The PIO page shall display the same fields for both winter storm events and non-winter events.

### **Program Flow**

The PIO interface is accessed by selecting the PIO menu item in the SARS menu. When a user selects the PIO tab from the module's menu, EORS will access the database and return data from the *EORS\_SARS\_PIO* table that is less than or equal to 8 hours old. If no data exists or the data is older than 8 hours, the fields will be left empty. If the user is in a role with edit rights the text fields will be editable. Otherwise, they will be read-only. If the user makes any edits to the page a flag will be set indicating that unsaved changes exist. If the user attempts to navigate away from the tab or page a message will be displayed giving them a choice to stay and save their

data or to leave without saving. If they leave without saving, their changes will be lost. When the user saves their changes a message will be displayed near the save button indicating the record was successfully saved or an error message if the operation was unsuccessful. When the save button is clicked the flag indicating unsaved changes will be reset to its original state. The user will remain on the PIO tab after a save regardless of successfulness of the operation. If the user does any further edits after the save, the save message will be hidden and the flag will be reset.

### **Conditionals for User on PIO page:**

User Navigates to PIO Page

#### **Read-Only**

If User is District User(s) or MDTA

#### **Read/Write**

If User is an Administrator, EOCAdmin, OOMAdmin, SOC or PIO: User is able to edit the text fields

**Navigating away from page:** If User has made no edits and tries to navigate away to other tab User goes to other page If User has made an edit and tries to navigate away to other tab Popup Appears asking "If you leave this tab without Saving you will lose your work. Do you still want to leave?" With Leave and Cancel buttons If User clicks Leave he will go to the new tab and the current data on the page will be lost Else If User clicks Cancel, he stays on the page with data intact

## **PIO Class Members & Methods**

The PIO page will be implemented in a web user control named PIO.ascx with an associated code behind. The interface code will reside in the DestopModule/SARS/Components folder.

### **Member Variables**

- bool \_isActive - indicates that the PIO tab is the active tab in the interface. This will be set by the main container class and the PIO data will only be retrieved from the database if the value of this variable is true.
- string \_eventID - the PIO tab uses this variable to retrieve data from the database for the correct event. It will be set by the main container class when the event is selected

### **Class Methods**

- protected override void OnInit(EventArgs e) - Adds event listener for the Page\_LoadComplete event
- protected void Page\_Load(object sender, EventArgs e) - Standard page load event. Toggles visibility of error messages.
- protected void Page\_LoadComplete(object sender, EventArgs e) - If the tab is active this method gets the data for the page and populates the form fields. If users does not have edit rights, it sets the text areas to read-only.
- public void loadPioPage() - Called from Page\_LoadComplete to handle database access and loading the page data.
- protected void btnSavePio\_Click(object sender, EventArgs e) - Event handler for the save button click event. Saves the data to the EORS database.
- protected void textPio\_TextChanged(object sender, EventArgs e) - Event handler for text area text changed event. Handles the event for text area on the tab and sets a flag indicating that unsaved changes exist.
- public string EventID - Getter/Setter for \_eventID.
- public bool IsActive - Getter/Setter for \_isActive.

## **PIO Data Access**

Data supplied to the PIO tab will be supplied from the following SarsController class methods:

- GetPio(string EventID) - A static method that returns data from the EORS\_SARS\_Pio table in the EORSV2 database that is 8 hours old or less. Returns data as a PiolInfo object.
- SavePio(UserInfo userInfo, PiolInfo piolInfo) - A static method to save PIO data to the EORS\_SARS\_PIO table. Passes the UserInfo object to save the updated by and update email address fields and a PiolInfo object containing the PIO text fields to be saved.

## **PiolInfo Object**

The PiolInfo object is used to pass PIO data back and forth to the controller methods to save and retrieve PIO data to the EORSV2 database. The following describes the class member variables and methods:

### **Member Variables**

- string \_pioText - Data for/from the PIO text box

### **Methods**

- public PiolInfo() - Empty constructor
- public PiolInfo(string lastUpdated, string updatedBy, string email, string eventID) - Constructor with user information initialization

- public PioInfo(string lastUpdated, string updatedBy, string email, string eventID, string pio) - Constructor with full initialization
- public PioInfo(PioInfo pioInfo) - Copy constructor
- public string PioText - Getter/Setter for **\_pioText**

The code will reside in the APP\_Code/SARS directory.

## Database

Currently Situational Awareness saves CHART info to *EORS\_SARS\_PIO* table. The table will have the following structure:

Name	Type	Key	Allows Nulls
update_time	DATETIME		NOT NULL
update_by	VARCHAR(50)		NOT NULL
update_email	VARCHAR(254)		NOT NULL
summary	VARCHAR(MAX)		NULL
pioID	UNIQUEIDENTIFIER	PK	NOT NULL
eventID	VARCHAR(10)	FOREIGN KEY REFERENCES EORS_Event(EventID)	NOT NULL

**Email Address Restrictions:** That limit is a maximum of 64 characters (octets) in the “local part” (before the “@”) and a maximum of 255 characters (octets) in the domain part (after the “@”) for a total length of 320 characters. However, there is a restriction in RFC 2821 on the length of an address in MAIL and RCPT commands of 254 characters. Since addresses that do not fit in those fields are not normally useful, the upper limit on address lengths should normally be considered to be 254.

Data definitions are as follows:

- update\_time - timestamp for when the row was inserted
- update\_by - username of user who entered the report
- update\_email - email address of user who entered the report
- summary - text from the PIO atrols text area on the PIO tab in the GUI
- pioID - ROWGUID auto-generated as primary key for each row in the table
- eventID - ID of the event that the report is referencing

Data from the *EORS\_SARS\_PIO* table is accessed via two SQL Server stored procedures:

- EORS\_SARS\_PIO\_GET - Gets data for a given event from the EORS\_SARS\_PIO table. Only data within 8 hours of execution will be returned.
- EORS\_SARS\_PIO\_UPDATE - Updates date in the *EORS\_SARS\_PIO* table.

The stored procedures accessing the *EORS\_SARS\_PIO* table use the following signatures:

- EORS\_SARS\_PIO\_GET @eventID
  - Returns: update\_time, update\_by, update\_email, summary, eventID
- EORS\_SARS\_CHART\_UPDATE @update\_by, @update\_email, @summary, @eventID

## **5.7 SARS District/MDTA Pages**

### **Overview**

The SARS Districts/MDTA pages shall allow EORS users to enter text regarding the district's response to an event that affect Maryland roadways. All users who have access to SARS will be able to view data saved from these pages but only users in SOC, OOMAdmin, EOCAdmin, administrators and users within the selected district will be able to edit it. The District/MDTA pages shall display the same fields for both winter storm events and non-winter events. However the data within the District Summary table will accurately reflect the event type.

### **Program Flow**

The flow in the District/MDTA tabs is relatively simple. When a user selects a district from the module's menu, EORS will access the database and return data from the *EORS\_SARS\_District* table for the district/event combination that is less than or equal to 8 hours old. If no data exists or the data is older than 8 hours, the fields will be left empty. If the user is in a role with edit rights the text fields will be editable. Otherwise, they will be read-only. If the user makes any edits to the page a flag will be set indicating that unsaved changes exist. If the user attempts to navigate away from the tab or page a message will be displayed giving them a choice to stay and save their data or to leave without saving. If they leave without saving, their changes will be lost. When the user saves their changes a message will be displayed near the save button indicating the record was successfully saved or an error message if the operation was unsuccessful. When the save button is clicked the flag indicating unsaved changes will be reset to its original state. The user will remain on the District tab after a save regardless of successfulness of the operation. If the user does any further edits after the save, the save message will be hidden and the flag will be reset.

## **Conditionals for User on District/MDTA Pages:**

User Navigates to District/MDTA Page

**Read-Only** If User is PIO or not a member of selected District/MDTA submenu

**Editor** If User is an Administrator, OOMAdmin, EOCAdmin or SOC user: User is able to edit the textfields

**Save Button Outcomes** If Save Successful Green text on top of CHART page says "Save Successful" Else If Save fails Red text on top of CHART page says "Save Failed, Contact Administrator"

**Navigating away from page:** If User has made no edits and tries to navigate away to other tab User goes to other page. If User has made an edit and tries to navigate away to other tab. Popup Appears asking "If you leave this tab without Saving you will lose your work. Do you still want to leave?" With Leave and Cancel buttons. If User clicks Leave he will go to the new tab and the current data on the page will be lost. Else If User clicks Cancel, he stays on the page with data intact

## **District Class Members & Methods**

The District/MDTA page will be implemented in a web user control named District.ascx with an associated code behind. The interface code will reside in the DestopModule/SARS/Components folder. The District.ascx class will contain the following member variables:

- bool \_isActive - indicates that the District/MDTA tab is the active tab in the interface. This will be set by the main container class and the District data will only be retrieved from the database if the value of this variable is true.
- string \_eventID - the District/MDTA tab uses this variable to retrieve data from the database for the correct event. It will be set by the main container class when the event is selected
- DistrictInfo \_districtInfo - Data from the page

The District.ascx class will contain the following methods:

- protected override void OnInit(EventArgs e) - Attaches Page\_LoadComplete event handler
- protected void Page\_Load(object sender, EventArgs e) - Standard page load event handler
- protected void gvClosures\_PageIndexChanging(object sender, GridViewPageEventArgs e) - Handler for gridview paging
- protected void tblSummary\_DataBind(object sender, System.EventArgs e) - Binds deployment data to summary section gridview

- public string getCommentsByShopName(DataTable comments, DataTable summary) - Gets shop comments
- public void loadDistrictPage() - Loads the data for the page
- protected void Page\_LoadComplete(object sender, EventArgs e)
- protected void btnSaveDist\_click(object sender, EventArgs e)
- protected void txtDistrictNotes\_TextChanged(object sender, EventArgs e)
- public string EventID - Getter/Setter for \_eventID
- public bool IsActive - Getter/Setter for \_IsActive
- public string Dist - Getter/Setter for district number

## District/MDTA Data Access

Data supplied to the District/MDTA tab will be supplied from the following Controller class methods:

- GetDistrictData(string EventID, int Dist) - A static method that returns data from the EORS\_SARS\_District table in the EORSV2 database that is 8 hours old or less. Returns data as a DistrictInfo object.
- SaveDistrict(UserInfo userInfo, DistrictInfo districtInfo) - A static method to save District/MDTA data to the EORS\_SARS\_District table. Passes the UserInfo object to save the updated by and update email address fields and a DistrictInfo object containing the District/MDTA text fields to be saved.

## DistrictInfo Object

The DistrictInfo object is used to pass District/MDTA data back and forth to the controller methods to save and retrieve District/MDTA data to the EORSV2 database. The following describes the class member variables and methods:

### Member Variables

- int District - District number
- string Summary - Data for/from District Notes text area
- DataTable \_EatherClosuresTable - District weather related road closures
- DataTable DistrictSummaryTable - District resources deployment data
- DataTable DistrictCommentsTable - Shop comments from within the district

### Methods

- public DistrictInfo() - Empty constructor
- public int District - Getter/Setter for District
- public string Summary - Getter/Setter for Summary
- public DataTable WetherClosuresTable - Getter/Setter for WetherClosuresTable
- public DataTable DistrictSummaryTable - Getter/Setter for DistrictSummaryTable

- public DataTable DistrictCommentsTable - Getter/Setter for DistrictCommentsTable

The code will reside in the APP\_Code/SARS directory.

## Database

Currently Situational Awareness saves District info to *EORS\_SARS\_District* table. The table will have the following structure:

Name	Type	Key	Allows Nulls
update_time	DATETIME		NOT NULL
update_by	VARCHAR(50)		NOT NULL
update_email	VARCHAR(MAX)		NOT NULL
district	INT		NULL
summary	VARCHAR(MAX)		
districtID	UNIQUEIDENTIFIER	PK	NOT NULL
eventID	VARCHAR(10)	FOREIGN KEY REFERENCES EORS_Event(EventID)	NOT NULL

**Email Address Restrictions:** That limit is a maximum of 64 characters (octets) in the “local part” (before the “@”) and a maximum of 255 characters (octets) in the domain part (after the “@”) for a total length of 320 characters. However, there is a restriction in RFC 2821 on the length of an address in MAIL and RCPT commands of 254 characters. Since addresses that do not fit in those fields are not normally useful, the upper limit on address lengths should normally be considered to be 254.

Data definitions are as follows:

- update\_time - timestamp for when the row was inserted
- update\_by - username of user who entered the report
- update\_email - email address of user who entered the report
- district - the district number
- summary - text from the notes text area on the District/MDTA tab in the GUI
- districtID - ROWGUID auto-generated as primary key for each row in the table
- eventID - ID of the event that the report is referencing

Data from the *EORS\_SARS\_District* table is accessed via two SQL Server stored procedures:

- EORS\_SARS\_District\_GET - Gets data for a given event from the EORS\_SARS\_District table. Only data within 8 hours of execution will be returned.
- EORS\_SARS\_District\_UPDATE - Updates date in the EORS\_SARS\_District table.

The stored procedures accessing the *EORS\_SARS\_District* table use the following signatures:

- EORS\_SARS\_District\_GET @district, @eventID
  - Returns: update\_time, update\_by, update\_email, summary
- EORS\_SARS\_District\_UPDATE @update\_by, @update\_email, @summary, @eventID

## **5.8 Help Page**

The page is just a read only page containing the schedule data from Sar Schedule Weekdays.docx and SAR Schedule Weekends.docx. See Human Machine Interface for screen capture.

## **5.9 SARS PDF Report**

### **Overview**

The SARS PDF Report will be created using PdfSharp and MigraDoc - both libraries currently exist in the EORS application. Only users in Administrators, EocAdmin, OomAdmin, SOC and host roles will be permitted to generate PDF reports.

### **Program Flow**

When the user selects EOC>>Generate Report from the SARS menu the Generate Report page is displayed. The Generate Report page consists of a collection of checkboxes which indicate whether or not certain sections of the report should be included. The default is to include all sections. After the user makes their selections and presses the Generate Report button, the GenerateReport.ascx class raises a button click event. The button click event instantiates a SarsPdfReport object and calls the GeneratePreview method. The GeneratePreview method will call the private class method CreateReport method which calls a series of private class methods to create the PDF report using PdfSharp & Migradocs. The SarsPdfReport class also contains a method (GenerateImagePreview) which returns the PDF report converted to a list of images to be used in the preview page. The image list is required for iPads browsers. The SarsPdfReport class also keeps the report as a byte array that will be saved to the ViewState to persist across post backs.

From the preview page, when the user elects to save the report, a static method (ArchiveSarsReport(ReportInfo reportInfo)) will be invoked to save the report meta data to the EORSV2 database.

## SarsPdfReport Class Members & Methods

The SarsPdfREport class will reside in the APP\_Code/SARS directory as SarsPdfReport.cs.

### Member Variables

- private string \_eventID - ID for the event
- private string \_eventName - Event name if it exists
- private ReportParams \_reportParams - Object containing which report sections should be included in the report
- private string \_username - Username of person who generated the report
- private string \_email - Email address of the person who created the report
- private string \_filename - The name the report will be saved under
- private Document document - The document object that contains the PDF
- private EocInfo \_eocInfo - EocInfo object containing the data from the EOC tab
- private ChartInfo \_chartInfo - ChartInfo object containing the data from the CHART tab
- private DataTable \_sep - Table of active snow emergencies
- private DataTable \_incidents - Table of major incidents
- private DataTable \_deployment - Table of shop resources deployment data
- private PiolInfo \_piolInfo - PiolInfo object containing data from the PIO tab
- private DistrictInfo \_dist1Info - DistrictInfo object containing data from the District 1 tab
- private DistrictInfo \_dist2Info - DistrictInfo object containing data from the District 2 tab
- private DistrictInfo \_dist3Info - DistrictInfo object containing data from the District 3 tab
- private DistrictInfo \_dist4Info - DistrictInfo object containing data from the District 4 tab
- private DistrictInfo \_dist5Info - DistrictInfo object containing data from the District 5 tab
- private DistrictInfo \_dist6Info - DistrictInfo object containing data from the District 6 tab
- private DistrictInfo \_dist7Info - DistrictInfo object containing data from the District 7 tab
- private DistrictInfo \_dist8Info - DistrictInfo object containing data from the MDTA tab
- private ReportInfo \_reportInfo - ReportInfo object containing report meta data to save to database when the report is archived

- private PdfDocumentRenderer tmpPdfRenderer - Needed by PdfSharp & Migradocs to render the PDF report
- private int \_reportNum - Each report for an event is numbered
- private byte[] \_pdfBytes - The PDF report as an array of bytes

## Class Constants

- private string FILE\_PATH = WebConfigurationManager.AppSettings["SARSArchive"]
- private string URL = WebConfigurationManager.AppSettings["ReportServerUrl"]
- private string USERNAME = WebConfigurationManager.AppSettings["ReportServerUsername"]
- private string PASSWORD = WebConfigurationManager.AppSettings["ReportServerPw"]
- private string DOMAIN = WebConfigurationManager.AppSettings["ReportServerDomain"]
- private string TMP\_FILE = "tmpSars"

## Class Methods

- private void DefineStyles() - Sets styles for the report
- private void CreateReport() - Generates the PDF report
- private Paragraph AddDistTitle(string distTitle) - Adds the title for the district sections in the report
- private Paragraph AddDistDeploymentHeader(DataTable depData) - Adds the header for the district deployment sections in the report
- private Table AddDistDeploymentTable(DataTable depData) - Adds the deployment tables to the district sections for the report
- private Paragraph AddDistNotes(string summary) - Adds the district notes sections to the report
- private Paragraph AddToc(string toc) - Adds the TOC Route Patrols sections to the districts
- private Paragraph AddDistWeatherClosures(string dist, DataTable weatherClosuresTable) - Adds weather closure tables to the districts in the report
- private int SetReportNumber() - Sets the report number by adding 1 to the previous report number
- private void GetReportData() - Gets all data for the report from the EORSV2 database
- private void SetFileNames(int repNo) - Sets the filename for the report
- private static void SaveReport(ReportInfo repInfo) - Handles the report save to archive and database
- private static void SaveReportOutlookGroups(ReportInfo repInfo) - Used to save Outlook groups to server after they've been successfully sent to.
- public string GeneratePreview() – Gets report preview as temp pdf file

- public List<Byte[]> GenerateImagePreview(out string tmpFileName) - Gets the report preview as a list of images
- public static string ArchiveSarsReport(ReportInfo repInfo) - Called by client to save the report
- public static void SaveSarsReportOutlookGroups(ReportInfo repInfo) – Used to save Outlook groups to server after they've been successfully sent to.
- public SarsPdfReport() - Empty Constructor
- public SarsPdfReport(UserInfo user, ReportParams reportParams, string eventID, string eventName = null) - Constructor with initialization
- public string EventID - Getter/Setter for \_eventID
- public string EventName - Getter/Setter for \_eventName
- public ReportParams ReportParams - Getter/Setter for \_reportParams
- public string UserName - Getter/Setter for \_username
- public string Email - Getter/Setter for \_email
- public string ReportName - Getter/Setter for \_filename
- public int ReportNum - Getter/Setter for \_reportNum
- public byte[] PdfBytes - Getter/Setter for \_pdfBytes

## **5.10 *SarsPdfReport Data Access***

SARS report meta-data will be saved to the EORSV2 database *EORS\_SARS\_Report* table via the following class method:

- SaveSarsReport(ReportInfo reportInfo) - A static method that saves report meta data to the EORS\_SARS\_Report table in the EORSV2 database

## **5.11 *ReportParams Object***

### **Member Variables**

- private bool \_cbSep - Indicates if snow emergency data is to be included in the report
- private bool \_cbPio - Indicates if PIO data is to be included in the report
- private bool \_cblIncidents - Indicates if major incident data is to be included in the report
- private bool \_cbClosuresD1 - Indicates if District 1 closures data is to be included in the report
- private bool \_cbClosuresD2 - Indicates if District 2 closures data is to be included in the report
- private bool \_cbClosuresD3 - Indicates if District 3 closures data is to be included in the report
- private bool \_cbClosuresD4 - Indicates if District 4 closures data is to be included in the report
- private bool \_cbClosuresD5 - Indicates if District 5 closures data is to be included in the report

- private bool \_cbClosuresD6 - Indicates if District 6 closures data is to be included in the report
- private bool \_cbClosuresD7 - Indicates if District 7 closures data is to be included in the report
- private bool \_cbClosuresD8 - Indicates if MDTA closures data is to be included in the report
- private bool \_cbDist1 - Indicates if District 1 non-closure data is to be included in the report
- private bool \_cbDist2 - Indicates if District 2 non-closure data is to be included in the report
- private bool \_cbDist3 - Indicates if District 3 non-closure data is to be included in the report
- private bool \_cbDist4 - Indicates if District 4 non-closure data is to be included in the report
- private bool \_cbDist5 - Indicates if District 5 non-closure data is to be included in the report
- private bool \_cbDist6 - Indicates if District 6 non-closure data is to be included in the report
- private bool \_cbDist7 - Indicates if District 7 non-closure data is to be included in the report
- private bool \_cbMdta - Indicates if MDTA non-closure data is to be included in the report
- private bool[] \_outlookGroups - List of outlook groups the report was emailed to
- private string \_emailSubject - Data from the email subject line
- private string \_emailMessage - Data from the (optional) email message

## **Class Methods**

- public ReportParams() - Empty constructor
- public bool CbSep - Getter/Setter for member of similar name
- public bool CbPio - Getter/Setter for member of similar name
- public bool CbIncidents - Getter/Setter for member of similar name
- public bool CbClosuresD1 - Getter/Setter for member of similar name
- public bool CbClosuresD2 - Getter/Setter for member of similar name
- public bool CbClosuresD3 - Getter/Setter for member of similar name
- public bool CbClosuresD4 - Getter/Setter for member of similar name
- public bool CbClosuresD5 - Getter/Setter for member of similar name
- public bool CbClosuresD6 - Getter/Setter for member of similar name
- public bool CbClosuresD7 - Getter/Setter for member of similar name
- public bool CbClosuresD8 - Getter/Setter for member of similar name
- public bool CbDist1 - Getter/Setter for member of similar name
- public bool CbDist2 - Getter/Setter for member of similar name
- public bool CbDist3 - Getter/Setter for member of similar name
- public bool CbDist4 - Getter/Setter for member of similar name
- public bool CbDist5 - Getter/Setter for member of similar name

- public bool CbDist6 - Getter/Setter for member of similar name
- public bool CbDist7 - Getter/Setter for member of similar name
- public bool CbMdata - Getter/Setter for member of similar name
- public bool[] OutlookGroups - Getter/Setter for member of similar name
- public string EmailSubject - Getter/Setter for member of similar name
- public string EmailMessage - Getter/Setter for member of similar name

## 5.12 ReportInfo Object

### Member Variables

- private string \_reportID - ROWGUID of report in database
- private string \_eventID - ID of event
- private string \_seasonID - ROWGUID of the season in which the event was created
- private DateTime \_dateCreated - Timestamp for report creation
- private string \_createdBy - Username of person who created the report
- private string \_email - Email address of person who created the report
- private int \_reportNum - Report number assigned to the report
- private string \_fileName - Filename of report
- private string \_outlookGroups - List of outlook groups emailed the report
- private byte[] \_pdfBytes - Report as a byte array

### Class Methods

- public ReportInfo() - Empty constructor
- public string ReportID - Getter/Setter for member of similar name
- public string EventID - Getter/Setter for member of similar name
- public string SeasonID - Getter/Setter for member of similar name
- public DateTime DateCreated - Getter/Setter for member of similar name
- public string CreatedBy - Getter/Setter for member of similar name
- public string Email - Getter/Setter for member of similar name
- public int ReportNum - Getter/Setter for member of similar name
- public string OutlookGroups - Getter/Setter for member of similar name
- public byte[] PdfBytes - Getter/Setter for member of similar name
- public string FileName - Getter/Setter for member of similar name

#### 5.12.1 Database

When a report is saved the EORSV2 database will be updated to add a row to the *EORS\_SARS\_Report* table. *EORS\_SARS\_Report* has the following structure:

Name	Type	Key	Allows Nulls
------	------	-----	--------------

reportID	UNIQUEIDENTIFIER	PK	NOT NULL
eventID	VARCHAR(10)	FK REFERENCES EORS_Event(EventID)	NOT NULL
seasonID	UNIQUEIDENTIFIER	FK REFERENCES EORS_Common_Existing_Seasons(seasonID)	NOT NULL
date_created	DATETIME		NOT NULL
created_by	VARCHAR(50)		NULL
creator_email	VARCHAR(MAX)		NULL
report_number	INT		NOT NULL
report_name	VARCHAR(255)		NOT NULL
outlook_groups	VARCHAR(MAX)		NULL

Each of the options is exposed via a button which raises an event to which the ViewSars.ascx class subscribes. The event listeners on ViewSars.ascx load the appropriate view as follows:

- Save Only - GenerateReport.ascx
- Save & Email - GenerateReport.ascx
- Cancel - GenerateReport.ascx

### 5.13 SARS Archive

#### Overview

The SARS Archive module interface will consist of two items: a search panel and a table containing report data. EORS users will be able to search the SARS Report Archive for reports created within a season or date range and to further search by event ID and/or the username of the person who created the report. Searching by event ID and username will only be available for reports created after the current (WO 11) release since legacy reports do not have a database component that stores those values. The interface will consist of the following sections:

#### Search Panel

The SARS Archive module will utilize the EorsCommon module to populate the season drop down list in the search panel. The current season will be selected by default. Searching may be performed by season or date range for the report creation date and

additionally by event ID and/or username of the report creator. Legacy report will only be searchable by season or date range.

## Report Table

The report table will be implemented with an asp:GridView object with paging set to "True". The table will be wrapped in the bootstrap "table-responsive" class to assist in display on smaller screens. Page sizes are 10, 20 and 50 items per page. The table will contain the following columns:

- Event ID - ID of event the report was created against. Will be empty for legacy reports
- Date/Time - Timestamp for report creation
- Filename - File system name for the report. Will be a hyperlink to open the report in a new tab/window
- Created By - Username of the person who created the report. Will be empty for legacy reports.
- Outlook Groups - Names of Outlook Groups that received the report via email. Will be empty for legacy reports

## Program Flow

On the initial page load (not post back) the SARS Archive module will load meta-data for all SARS reports in the archive. The meta-data will be pulled directly from the file system. All report meta-data will be kept in a DataTable object that will be serialized to the ViewState to preserve the list across post backs. This eliminates the need to access the file system on each post back. When the user changes the season the SARS Archive will automatically post back and update the table. Searching by data range, event ID and Created By require the user to click the Search button. When the user clicks the Search button EORS will perform form validation. If the form data is valid EORS will update the table display to match the search criteria but the original list of all reports shall be preserved.

Search may be performed by season or date range. When the season/date range radio button is changes the Event & Created by drop down lists will be disabled and deselected. Their checkboxes will be deselected as well. When date range is selected, at least one date must be entered. If only the start date is supplied, the SARS Archive will return all reports created on and after the date entered. If only the end dates is entered, the SARS Archive will return all reports before or on the date entered. If both dates are entered, the SARS archive will return all reports created between the entered dates (inclusive). If no dates are entered, the SARS Archive will display an error message and no filtering will occur.

When the user checks the By Event checkbox the SARS Archive will retrieve all event IDs that have SARS reports created against them within the specified season/date

range. If there is a selection active for Created By, further filtering will occur by that parameter as well. If no event exists for the supplied parameters, the SARS archive will display a "no data" message, uncheck the Events checkbox and disable the By Event drop down list.

When the user checks the Created By checkbox the SARS Archive will retrieve all usernames that have SARS reports created under them within the specified season/date range. If there is an active selection for Event ID, further filtering will occur on that parameter as well. If no username data exists for the supplied parameters, the SARS archive will display a "no data" message, uncheck the Created By checkbox and disable the Created By drop down list.

## SARS Archive Class Members & Methods

The SARS Archive class will reside in /DesktopModules/SarsArchive as ViewSarsArchive.ascx with an associated code behind ViewSarsArchive.ascx.cs.

### Member Variables

- private DataTable dt - Data Table to bind to grid view
- private List<FileInfo> myFiles - A list of all SARS reports
- private List<FileInfo> currFiles - A list of the SARS reports we are currently working with
- private DataTable dtTemp - A temporary data table used for convenience when working with SARS report filtering

### Class Methods

- private void SearchDatesEnables(bool isEnabled) - toggles the enables property on the search date text boxes and calendar controls
- private DataTable ToDataTable(List<FileInfo> files) - Takes a list of FileInfo objects and converts it to a DataTable to bind to the GridView on the page
- private void DisableDropDowns() - Disables the Event & Created by drop down lists
- protected void Page\_Load(object sender, EventArgs e) - Standard page load event handler. If not post back gets all files from the archive and sets GridView to display only current season reports. When posting back pulls file lists (all & current) from the ViewState and binds the GridView to the current file list (currFiles)
- protected void rbDateChange(object sender, EventArgs e) - Event handler for the season/date range radio button change event. Enables the appropriate season or date range controls on the form and resets the event and Created By drop down lists to disabled and deselected.

- protected void cbChange(object sender, EventArgs e) - Check box change event handler attached to the search by event and username checkboxes. Enables/disables appropriate form controls based on selection.
- protected void season\_change(object sender, EventArgs e) - Season drop down list change event handler. Filters the GridView based on selection
- protected void btnGo\_click(object sender, EventArgs e) - Event handler attached to the Search button. Handles filtering the GridView based on search parameters
- protected void gvFiles\_PageIndexChanging(object sender, EventArgs e) - Event handler attached to the GridView to handle paging events
- protected void ddlPageSize\_change(object sender, EventArgs e) - Event handler attached to GridView page size control to handle changing the page size for the GridView
- protected void ValidDate(object sender, ServerValidateEventArgs, value) - Server side date validator
- protected void ValidBlankDates(object sender, ServerValidateEventArgs, value) - Server side date validator to make sure both dates were not left blank.
- protected void ValidDates() - Returns validation state of all date validators - true if all validate, false if any fail
- private void SetEventsDropdown() - Populates the event drop down list based on season or date range and (optionally) Created By username
- private void SetCreateByDropdown() - Populates the created by drop down list based on season or date range and (optionally) event ID

## SARS Archive Data Access

SARS Report meta-data will be gathered by accessing the file system. Searching SARS reports by season or date range will be performed by using queries against the in memory data table and FileInfo lists. Searching by Event ID and/or Created By will use database access searching the *EORS\_SARS\_Report* table. The interface between the SARS Archive class and the EORSV2 database is facilitated via the ArchiveController class via the following methods:

- public static List<SelectListInfo> GetEvents(string startDate = null, string endDate = null, string seasonID = null, string username = null) - Gets a list of event IDs matching the supplied parameters. Data is returned in a format suitable for populating a drop down list
- public static List<SelectListInfo> GetCreatedBy(string startDate, string endDate = null, string eventID = null) - Gets a list of usernames matching the supplied parameters. Data is returned in a format suitable for populating a drop down list
- public static ReportArchiveInfo GetReportData(string reportName) - Gets the meta data for a single SARS report based on the file name.

## ReportArchiveInfo Object

The ReportArchiveInfo object is used to pass SARS report meta data back and forth between SARS archive objects. The following describes the methods and member variables of the ReportArchiveInfo object:

### Member Variables

- private string \_reportID - ROWGUID from database for the report
- private string \_eventID - Event report was created against
- private string \_seasonID - ROWGUID of season of the report creation date
- private DateTime \_dateCreated - Report creation date
- private string \_createdBy - Username of user who created the report
- private string \_email - Email address of user who created the report
- private string \_fileName - Filename for the report
- private string \_outlookGroups - Groups that received the report via email from the SARS interface

### Methods

- public ReportArchiveInfo() - Empty constructor
- public string ReportID - Getter/Setter for \_reportID
- public string EventID - Getter/Setter for \_eventID
- public string SeasonID - Getter/Setter for \_seasonID
- public DateTime DateCreated - Getter/Setter for \_dateCreated
- public string CreatedBy - Getter/Setter for \_createdBy
- public string Email - Getter/Setter for \_email
- public string FileName - Getter/Setter for \_fileName
- public string OutlookGroups - Getter/Setter for \_outlookGroups

### Database

SARS report meta-data will be stored in the *EORS\_SARS\_Report* table. The table will have the following structure:

Name	Type	Key	Allows Nulls
reportID	UNIQUEIDENTIFIER	PK	NOT NULL
eventID	VARCHAR(20)	FK REFERENCES EORS_Event(EventID)	NOT NULL
seasonID	UNIQUEIDENTIFIER	FK REFERENCES EORS_Common_Existing_Seasons(seasonID)	NOT NULL

date_created	DATETIME		NOT NULL
created_by	VARCHAR(50)		NOT NULL
creator_email	VARCHAR(254)		NOT NULL
report_number	INT		NOT NULL
report_name	VARCHAR(255)		NOT NULL
outlook_groups	VARCHAR(MAX)		NULL

**Email Address Restrictions:** That limit is a maximum of 64 characters (octets) in the “local part” (before the “@”) and a maximum of 255 characters (octets) in the domain part (after the “@”) for a total length of 320 characters. However, there is a restriction in RFC 2821 on the length of an address in MAIL and RCPT commands of 254 characters. Since addresses that do not fit in those fields are not normally useful, the upper limit on address lengths should normally be considered to be 254.

Data Definitions are as follows:

- reportID - ROWGUID for each row in the table
- eventID - ID of event the report is referencing
- seasonID - ROWGUID for the season the report was created in
- date\_created - timestamp of report creation date/time
- create\_by - Username of person who created the report
- creator\_email - Email address of the user who created the report
- report\_number - SARS reports for each event are assigned sequential report numbers
- report\_name - File name of the SARS report
- outlook\_groups - list of Outlook Groups that received the report via email from the SARS module interface

Data from the *EORS\_SARS\_Report* table is access via the following stored procedures:

- EORS\_SARS\_Archive\_Get\_Events - Gets events matching search criteria
- EORS\_SARS\_Archive\_Get\_Report\_By\_Name - Gets report meta data using the report name as the search parameter
- EORS\_SARS\_Archive\_Get\_CreatedBy - Gets usernames of report creators matching search criteria

The stored procedures accessing the *EORS\_SARS\_Report* table have the following signatures:

- EORS\_SARS\_Archive\_Get\_Events @startDate = null, @endDate = null, @seasonID = null, @eventID = null
  - EORS\_SARS\_Archive\_Get\_Report\_By\_Name @reportName
  - EORS\_SARS\_Archive\_Get\_CreatedBy @startDate, @endDate = null, @eventID = null
- .

## 5.14 EORS PR Design

### 5.14.1 EORS-429 Updated error handling to better deal with CHARTWeb DB connections failure

There are four places in EORS that communicate with the CHARTWeb database: Events, SARS, Route Restrictions and CHARTWeb Messages.

The SARS module handles CHARTWeb database failures already. If the connection to the CHARTWeb database fails, SARS displays a pop up box informing the user.

The Events also handles connection errors with the CHARTWeb database already. When a database connection fails the RWIS data table on the Weather tab of Event Shop Reports will display N/A in the data cells and the primary RWIS row will be displayed with a black background. For this PR a label will be added to the Weather tab to make it clear that an error occurred.

Shop RWIS Data Error selecting RWIS data from database. Contact your system administrator.			
	Name/Location	Surface Temperature	Reading Date/Time
Primary RWIS	N/A		N/A
Secondary RWIS	N/A		N/A

CHARTWeb Messages relies solely on the CHARTWeb database. If the connection fails, an error message will be displayed to the user. Each ObjectDataSource will have an OnSelected Event attached with the handler checking for errors and modifying the GUI as needed. The Edit and Update button click event handlers will be updated to add error checking and respond appropriately when an error occurs.

CHARTWeb Messages
Could not connect to database to get CHARTWeb pages. Please contact a system administrator.

The Route Restrictions will have OnSelected event handlers to each ObjectDataSource reliant on the CHARTWeb database. The event handlers will respond to database connection errors by display a message informing the user.

RouteRestrictions
Error getting route information from the database. Please contact a system administrator.

#### **5.14.2 EORS-1727**

Exception handling for accessing ATMS priority events will be handled in the SarsController.cs and SarsPdfReport.cs classes as well as the EocStaticData.ascx and the GenerateReport.ascx web user controls.

The SarsController.cs class will implement try/catch methodology to handle connection errors. If the connection fails, an exception will be caught and re-thrown. If the error occurs when the user is on the EOC Summary Data page, the thrown exception will be caught by the EocStaticData.ascx web user control. A stack trace of the exception will be logged to the EORS Event Log and a user friendly error message will be displayed on the page informing the user that priority events were unavailable. The rest of the page data will be displayed correctly. If the error occurs during SARS Report generation, the error will be caught by the class. The SarsPdfReport.cs class will catch the exception and raise it after the rest of the report generation has been completed. The raised exception will be caught by the GenerateReport.ascx web user control which will log a stack trace of the error to the EORS Event Log and display a user friendly message indicating that ATMS priority events are unavailable.

#### **5.14.3 EORS-764 Equipment and Labor Reporting using incorrect date range**

It has been observed that the Equipment and Labor storm cost report is adding 1 day to the date range when running the report for a date range.

The error is in the SQL Stored Procedure that feeds the report. The stored procedure appends the string "23:59:59.999" to the end of the ending date in the date range and selects shop reports using the SQL BETWEEN function. This raises two issues.

- When appending the string "23:59:59.999" to a date time field, SQL server interprets it as a date add operation and adds a day to the end date
- The SQL BETWEEN function is inclusive of the date limits supplied

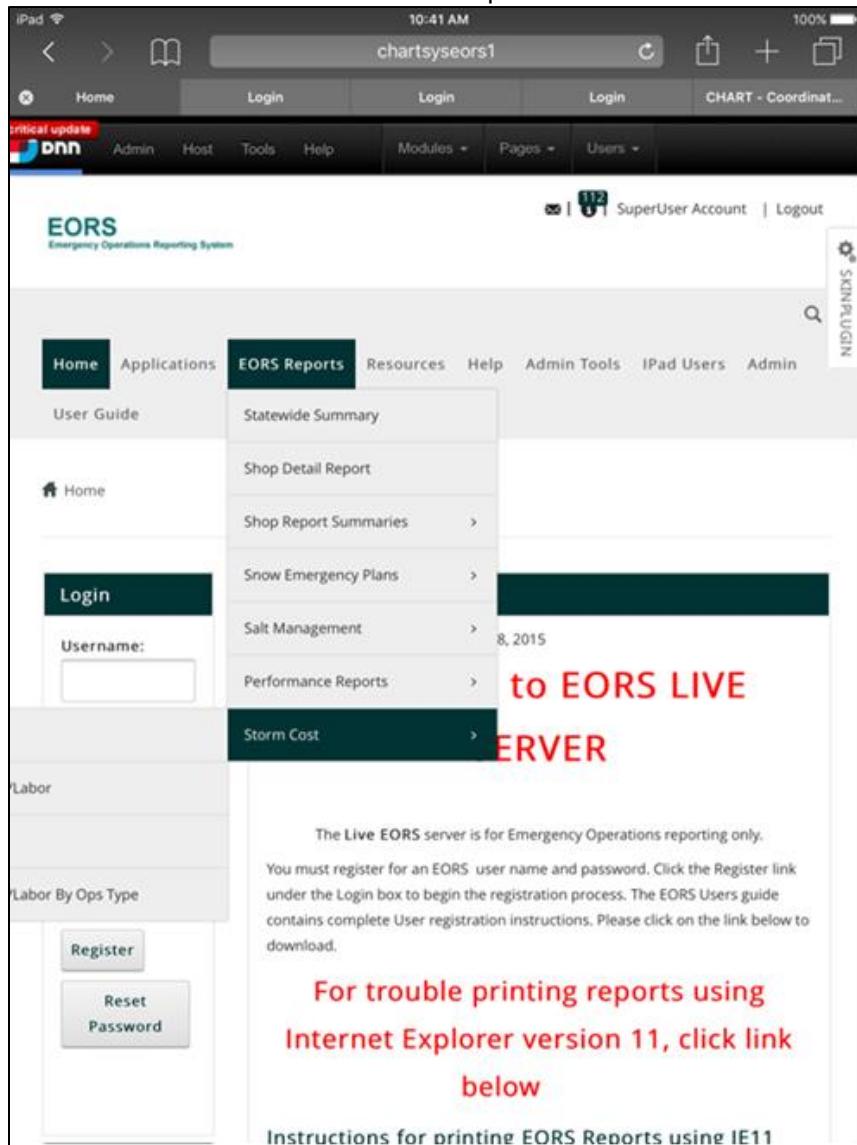
The result is that an extra day is being included in the dataset that is returned. The fix is to replace the SQL BETWEEN function with < & >= comparisons. E.g. Date BETWEEN date1 AND date2 is replaced with Date >= date1 AND Date < date2.

#### **5.14.4 EORS-805 iPad Navigation**

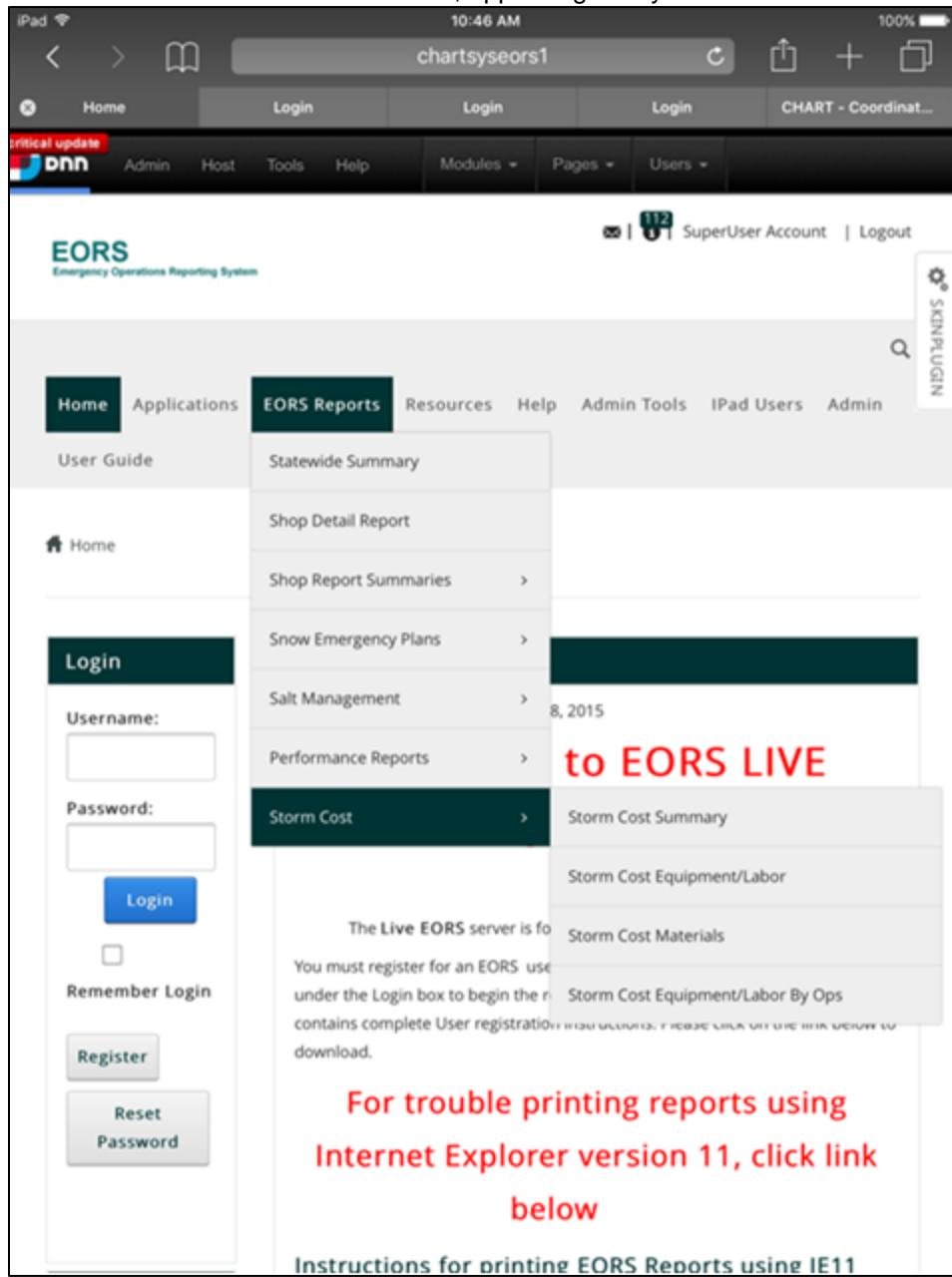
Currently there is an issue where the drop down menus are falling off the screen and, thanks to the javascript's menu reorienting, aren't being displayed correctly. A fix has been approved and these instructions will show how to fix:

1. Navigate to and log into EORS as host
2. On Admin menu go to Page Management
3. Go select the Eors Reports>Storm Cost>Storm Cost Equipment/Labor By Ops Type page from left tree view
4. Change Page Name to Storm Cost Equipment/Labor By Ops
5. Click Update Page, refresh the page and verify the change by navigating to it

Pre-Fix issue will look like this on iPad in portrait mode:



Post Fix issue will be resolved on iPad, appearing thusly:



#### 5.14.5 EORS-1208 List of Active Events show incorrect date/time for Last report

Currently, this problem exists in the List of Active Events, the list returned from searching events, list of active events on the Event Admin page and the search results on the Event Admin page. The source of the problem is that the SQL queries for these pages are returning the maximum report date for all events within the set of events returned. It should be returning the maximum report dates for each individual event in the list.

The fix is to update the following stored procedure in the EORSV2 database:

- EORS\_Event\_GET\_OPEN\_EVENTS
- EORS\_Event\_SEARCH
- EORS\_Event\_GET

In each case the last report will be selected with the following statement in the query:  
(SELECT MAX(report\_date) FROM EORS\_Event\_Shop\_Reports WHERE eventID =  
a.eventID) AS last\_report

#### **5.14.6 EORS-1227 Create deployment script for EORS SSRS reports**

Currently CM has to update SSRS reports individually through a long process. This script seeks to streamline the process of updating the reports. How it will work is that CM will run the script with the SQL Server Reporting Services RS.EXE Utility in C:\Program Files (x86)\Microsoft SQL Server\110\Tools\Binn.

The script itself will be written in VB.NET as that is what is supported. The script will have its variables declared at the top in a format easy to use for CM to customize ReportServer name and files being imported. It will then iterate through those reports and update each of them.

#### **5.14.7 EORS-1244 Update RWIS device data in EORS**

The EORS-1244 PR fix will be performed with SQL Server scripts. The scripts will be run one time and discarded. The first script is to be run on the CHARTWeb database to remove two RWIS devices that are no longer used: I-895 at I-95 and US-219 S at Deep Creek Lake. The second script will perform multiple tasks against the EORSV2 database:

- Find all shops that have RWIS devices with system ID 551 selected as either primary or secondary RWIS devices and set those entries to NULL in the EORS\_Shop\_RWIS table
- Delete all rows in the EORS\_RWIS\_Info table that have system ID 551
- There are four RWIS devices in the EORS\_RWIS\_Info table that have incorrect RPU ID's set. They will be corrected via the script. The devices are: MD-30 @ PA Line, MD-200 E @ Bonifant Rd, MD-200 E @ Muncaster Mill Rd and Radio Shop Test Site.
- Add all RWIS devices that exist in the G\_RWIS table in the CHARTWeb database to the EORS\_RWIS\_Info table in the EORSV2 database

#### **5.14.8 EORS-1246 Create a SQL export to provide data from 4 primary reports to easily update the Master spreadsheet in use by OOM**

To provide data from four primary reports we need to create a view and new user with view only rights in EORS database.

In Excel we will use the Data Connection Wizard to create a dynamic connection between an EORS database Excel workbook.

The latest view is listed below. What needs to happen in SQL is to have column values verified and to make the sort order it correctly.

The table will be made as a view called Master\_Table with the following columns:

- Season
- FY
- Shop
- District
- Index Number
- Events w/ Accum
- Events w/out Accum
- EORS Inches of Snow
- Avg Accum per Event
- Lane Miles
- EORS Tons Salt Used
- EORS tons/lm
- EORS lbs/lm
- EORS lbs/lm/inch
- Gallons Mag Used
- Gallons Salt Brine Used
- Total Gallons Liquids Used
- Tons Abrasives
- % of Time Meeting 3.11 Measure
- Avg Hours Needed to Meet Measure
- Number of State Trucks
- Total Number of Trucks
- Number lm/truck

#### ***5.14.9 EORS-1259 Investigate MS Surface using IE 11 and Edge for EORS compatibility***

This is a testing task. See the testing document for details.

#### ***5.14.10 EORS-1324. Add ability to manage messages on CHARTWeb Winter Vehicles Map from EORS Web Messages module***

There is currently a new page being developed for CHARTWeb, the Winter Vehicles Map, which need to be connected to EORS' message capability. EORS is pretty dumb about specific to the messages, relying on the CHARTWeb DB for all of its content.

To do this an sql script need to be written to add that specific page (`\WinterOperations\VehiclesMap\default.asp`) to the database (ChartWeb webmessages

table). Code is already in \WinterOperations\VehiclesMap\default.asp to imbibe webmessages. Will make changes to default.asp if errors occur in imbibing webmessages.

It appears the script has already been written on another task so I will be verifying it functions as intended.

		Desktop	Mobile	CHARTWeb Desktop Messages System			
ID	Page	Online	Message Active	URL			
1	Home	True	False	http://www.chart.state.md.us/default.asp			
2	Local Traveler Information	True	False	http://www.chart.state.md.us/travinfo/travinfo.asp			
3	HAR (future use)	True	False	http://www.chart.state.md.us/travinfo/travinfo.asp			
4	Interactive Mapping	True	False	http://www.chart.state.md.us/MapNet/Default.aspx			
5	Incident Reports	True	False	http://www.chart.state.md.us/TravInfo/Default.aspx			
6	Road Closures	True	False	http://www.chart.state.md.us/road_closures/road_closures.asp			
7	Live Traffic Cameras	True	False	http://www.chart.state.md.us/TravInfo/trafficCams.asp			
8	Local Weather Station Images	True	False	http://www.chart.state.md.us/travinfo/weatherStationCameras.asp			
9	Local Weather Station Data	True	False	http://www.chart.state.md.us/travinfo/weatherStationData.asp			
10	Speed Sensor Data	True	False	http://www.chart.state.md.us/travinfo/speedData.asp			
11	Highway Message Signs	True	False	http://www.chart.state.md.us/travinfo/dmsSigns.asp			
12	Entire Site	True	False	http://www.chart.state.md.us/default.asp			

New Message will show up here for editing

Testing will be in line with standard testing of the other web messages, editing it and viewing the results in ChartWeb.

This section describes the security and integrity controls being added or modified in EORS WO 11. Features being added for EORS WO 11 do not change security aspects of EORS.

## APPENDIX A. MAPPING TO REQUIREMENTS

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The table below shows how the new and modified requirements in the EORS WO 11 Requirements document map to design elements contained in this design.

Use Case	Design Elements
UC-1.0.0 SARS EOC Statewide Summary	<ul style="list-style-type: none"><li>• Figure 4-2 EORS SARS EOC Statewide Summary</li><li>• Figure 4-3 EORS SARS EOC Statewide Summary Not Editable</li><li>• 5.2.1.2 SARS EOC Statewide Summary Page</li></ul>
UC-1.1.0 SARS CHART Page Use Case - Editable	<ul style="list-style-type: none"><li>• Figure 4-14 EORS SARS CHART Page Screen Capture</li><li>• 5.2.1.5 SARS CHART Page</li></ul>
UC-1.1.1 SARS CHART Page Use Case – View Only	<ul style="list-style-type: none"><li>• Figure 4-15 EOES SARS Chart Page Not Editable Screen Capture</li><li>• 5.2.1.5 SARS CHART Page</li></ul>
UC-1.2.0 SARS PIO Page Use Case	<ul style="list-style-type: none"><li>• Figure 4-16 EORS SARS PIO Page Screen Capture</li><li>• Figure 4-17 EORS SARS PIO Page Not Editable Screen Capture</li><li>• 5.2.1.6 SARS PIO Page</li></ul>
UC-1.3.0 SARS District Pages	<ul style="list-style-type: none"><li>• Figure 4-18 EORS SARS District/MDTA Page Screen Capture</li><li>• Figure 4-19 EORS SARS District/MDTA Page Not Editable Screen Capture</li><li>• 5.2.1.7 SARS District/MDTA Pages</li></ul>
UC-1.4.0 SARS Help Page Use Case	<ul style="list-style-type: none"><li>• Figure 4-20 EORS SARS Help Page Screen Capture</li><li>• 5.2.1.8 Help Page</li></ul>
UC-1.5.0 SARS Archive Use Case 1	<ul style="list-style-type: none"><li>• Figure 4-27 EORS SARS Archive Search Panel Screen Capture</li><li>• Figure 4-28 EORS SARS Archive Search Panel Screen Capture (cont)</li><li>• Figure 4-29 EORS SARS Archive Search Panel Screen Capture (cont)</li><li>• Figure 4-30 EORS SARS Archive Search Panel Screen Capture</li></ul>

	<p>(cont)</p> <ul style="list-style-type: none"> <li>• 5.2.1.10 SARS Archive</li> </ul>
UC-1.5.1 SARS Archive Search Reports By Season or Date Range Event ID	<ul style="list-style-type: none"> <li>• Figure 4-27 EORS SARS Archive Search Panel Screen Capture</li> <li>• Figure 4-28 EORS SARS Archive Search Panel Screen Capture (cont)</li> <li>• Figure 4-29 EORS SARS Archive Search Panel Screen Capture (cont)</li> <li>• Figure 4-30 EORS SARS Archive Search Panel Screen Capture (cont)</li> <li>• 5.2.1.10 SARS Archive</li> </ul>
UC-1.5.2 SARS Archive Search Reports by Season or Date Range and Created By	<ul style="list-style-type: none"> <li>• Figure 4-27 EORS SARS Archive Search Panel Screen Capture</li> <li>• Figure 4-28 EORS SARS Archive Search Panel Screen Capture (cont)</li> <li>• Figure 4-29 EORS SARS Archive Search Panel Screen Capture (cont)</li> <li>• Figure 4-30 EORS SARS Archive Search Panel Screen Capture (cont)</li> <li>• 5.2.1.10 SARS Archive</li> </ul>
UC-1.5.3 SARS Archive Search Reports by Season	<ul style="list-style-type: none"> <li>• Figure 4-27 EORS SARS Archive Search Panel Screen Capture</li> <li>• Figure 4-28 EORS SARS Archive Search Panel Screen Capture (cont)</li> <li>• 5.2.1.10 SARS Archive</li> </ul>
UC-1.5.4 SARS Archive Search Reports by Date Range	<ul style="list-style-type: none"> <li>• Figure 4-29 EORS SARS Archive Search Panel Screen Capture (cont)</li> <li>• Figure 4-30 EORS SARS Archive Search Panel Screen Capture (cont)</li> <li>• 5.2.1.10 SARS Archive</li> </ul>

UC-1.5.5 SARS Archive Search by Season or Date Range, Event ID and Created By	<ul style="list-style-type: none"> <li>• Figure 4-28 EORS SARS Archive Search Panel Screen Capture (cont)</li> <li>• Figure 4-29 EORS SARS Archive Search Panel Screen Capture (cont)</li> <li>• 5.2.1.10 SARS Archive</li> </ul>
UC-1.6.0 SARS PDF Report Winter Events	<ul style="list-style-type: none"> <li>• Figure 4-21 EORS SARS PDF Report Winter Event Screen Capture</li> <li>•</li> <li>• Figure 4-22 EORS SARS PDF Report Winter Event Screen Capture (cont)</li> <li>• Figure 4-23 EORS SARS PDF Report Winter Event Screen Capture (cont)</li> <li>• 5.2.1.9 SARS PDF Report</li> </ul>
UC-1.6.1 SARS PDF Report Non-Winter Events	<ul style="list-style-type: none"> <li>• Figure 4-24 EORS SARS PDF Report Non-Winter Screen Capture</li> <li>• Figure 4-25 EORS SARS PDF Report Non-Winter Screen Capture (cont)</li> <li>• 5.2.1.9 SARS PDF Report</li> </ul>
UC-1.7.0 SARS EOC Summary Data Winter Event	<ul style="list-style-type: none"> <li>• Figure 4-4 EORS SARS EOC Summary Data Snow Emergencies Screen Capture</li> <li>• Figure 4-5 EORS SARS EOC Summary Data Deployment Screen Capture</li> <li>•</li> <li>• Figure 4-6 EORS SARS EOC Summary Data Major Incidents Screen Capture</li> <li>• Figure 4-7 EORS SARS EOC Summary Data Road Closures Screen Capture</li> <li>• 5.2.1.3 SARS EOC Summary Data Page</li> </ul>
UC-1.7.1 SARS EOC Summary Data – Non-Winter Event	<ul style="list-style-type: none"> <li>• Figure 4-5 EORS SARS EOC Summary Data Deployment Screen Capture</li> <li>• Figure 4-6 EORS SARS EOC Summary Data Major Incidents Screen Capture</li> </ul>

	<ul style="list-style-type: none"> <li>• Figure 4-7 EORS SARS EOC Summary Data Road Closures Screen Capture</li> <li>• 5.2.1.3 SARS EOC Summary Data Page</li> </ul>
UC-1.8.0 SARS Generate Report Use Case - Accessible	<ul style="list-style-type: none"> <li>• Figure 4-8 EORS SARS Generate Report Accessible Screen Capture</li> <li>• Figure 4-10 EOC SARS Generate Report Winter Event Parameters Page Screen Capture</li> <li>• Figure 4-11 EORS SARS Generate Report Non-Winter Events Parameters Page Screen Capture</li> <li>• Figure 4-12 EORS SARS Report Preview Screen Capture</li> <li>• Figure 4-13 EORS SARS Success Page Screen Capture</li> <li>• 5.2.1.4 SARS Generate Report Parameters Page</li> </ul>
UC-1.8.1 SARS Generate Report Use Case Not Accessible	<ul style="list-style-type: none"> <li>• Figure 4-9 EORS SARS EOC Generate Report Not Accessible Screen Capture</li> </ul>
UC-1.9.0 SARS Event Selection	<ul style="list-style-type: none"> <li>• Figure 4-1 EORS SARS Event Selection</li> <li>• 5.2.1.1 SARS Main Container Pag</li> </ul>

<b>PR #</b>	<b>Design Elements</b>
EORS-429/EORS-1727	<ul style="list-style-type: none"> <li>• 5.3.1 EORS-429 Updated error handling to better deal with CHARTWeb DB connections failure</li> <li>• 5.3.1.1 EORS-1727</li> </ul>
EORS-764	<ul style="list-style-type: none"> <li>• EORS-764 Equipment and Labor Reporting using incorrect date range</li> </ul>
EORS-805	<ul style="list-style-type: none"> <li>• 5.3.3 EORS-805 iPad Navigation</li> </ul>
EORS-1208	<ul style="list-style-type: none"> <li>• 5.3.4 EORS-1208 List of Active Events show incorrect date/time for Last report</li> </ul>
EORS-1227	<ul style="list-style-type: none"> <li>• 5.3.5 EORS-1227 Create deployment script for EORS SSRS reports</li> </ul>
EORS-1244	<ul style="list-style-type: none"> <li>• 5.3.6 EORS-1244 Update RWIS device data in EORS</li> </ul>
EORS-1246	<ul style="list-style-type: none"> <li>• 5.3.7 EORS-1246 Create a SQL export to provide data from 4</li> </ul>

	primary reports to easily update the Master spreadsheet in use by OOM
EORS-1259	<ul style="list-style-type: none"> <li>• 5.3.8 EORS-1259 Investigate MS Surface using IE 11 and Edge for EORS compatibility</li> </ul>
EORS-1324	<ul style="list-style-type: none"> <li>• EORS-1324. Add ability to manage messages on CHARTWeb Winter Vehicles Map from EORS Web Messages module</li> </ul>